

REPORT NUMBER: 208-MGA-2006-001

**VEHICLE SAFETY COMPLIANCE TESTING
FOR
FMVSS 208, OCCUPANT CRASH PROTECTION
FMVSS 212, WINDSHIELD MOUNTING
FMVSS 219, WINDSHIELD INTRUSION (PARTIAL)
FMVSS 301, FUEL SYSTEM INTEGRITY**

**Toyota Motor Corporation
2006 Toyota Corolla Passenger Car
NHTSA No.: C65102**

**PREPARED BY:
MGA RESEARCH CORPORATION
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BURLINGTON, WI 53105**



Test Dates: October 20, 2005

Final Report Date: November 29, 2005

FINAL REPORT

**PREPARED FOR:
U.S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
OFFICE OF ENFORCEMENT
OFFICE OF VEHICLE SAFETY COMPLIANCE
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FINAL REPORT ACCEPTED BY OVSC:

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Technical Report Documentation Page

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SECTION 1

PURPOSE OF COMPLIANCE TEST

The tests performed are part of a program conducted for the National Highway Traffic Safety Administration (NHTSA) by MGA Research Corporation (MGA) under Contract No. DTNH22-03-D-11002. The purpose of this test was to determine whether the subject vehicle, a 2006 Toyota Corolla, NHTSA No. C65102, meets certain performance requirements of FMVSS 208, "Occupant Crash Protection"; FMVSS 212, "Windshield Mounting"; FMVSS 219, "Windshield Zone Intrusion"; and FMVSS 301, "Fuel System Integrity". The compliance test was conducted in accordance with OVSC Laboratory Test Procedure No. TP208-12 dated January 14, 2003.

SECTION 2 TESTS PERFORMED

Test Vehicle: 2006 Toyota Corolla
Test Program: FMVSS 208 Compliance

NHTSA No.: C65102
Test Dates: 10/12/05 -
10/20/05

The following checked items indicate the tests that were performed:

- | | |
|-------------------------------------|---|
| <input checked="" type="checkbox"/> | 1. Rear outboard seating position seat belts (S4.1.1.2(b) & (S4.2.4) |
| <input checked="" type="checkbox"/> | 2. Air bag labels (S4.5.1) |
| <input checked="" type="checkbox"/> | 3. Readiness indicator (S4.5.2) |
| <input checked="" type="checkbox"/> | 4. Passenger air bag manual cut-off device (S4.5.4) |
| <input checked="" type="checkbox"/> | 5. Lap belt lockability (S7.1.1.5) |
| <input checked="" type="checkbox"/> | 6. Seat belt warning system (S7.3) |
| <input checked="" type="checkbox"/> | 7. Seat belt contact force (S7.4.4) |
| <input checked="" type="checkbox"/> | 8. Seat belt latch plate access (S7.4.4) |
| <input checked="" type="checkbox"/> | 9. Seat belt retraction (S7.4.5) |
| <input checked="" type="checkbox"/> | 10. Seat belt guides and hardware (S7.4.6) |
| <input type="checkbox"/> | 11. Suppression tests with 12-month-old CRABI dummy (Part 572, Subpart R) |
| <input type="checkbox"/> | 12. Suppression tests with newborn infant (Part 572, Subpart K) |
| <input type="checkbox"/> | 13. Suppression tests with 3-year-old dummy (Part 572, Subpart P) |
| <input type="checkbox"/> | 14. Suppression tests with 6-year-old dummy (Part 572, Subpart N) |
| <input type="checkbox"/> | 15. Test of reactivation of the passenger air bag system with an unbelted 5 th percentile female dummy |
| <input type="checkbox"/> | 16. Low risk deployment test with 12-month-old dummy (Part 572, Subpart R) |
| <input type="checkbox"/> | 17. Low risk deployment test with 3-year-old dummy (Part 572, Subpart P) |
| <input type="checkbox"/> | 18. Low risk deployment test with 6-year-old dummy (Part 572, Subpart N) |
| <input type="checkbox"/> | 19. Low risk deployment test with 5 th female dummy (Part 572, Subpart O) |
| <input checked="" type="checkbox"/> | 20. Impact Tests |
| <input type="checkbox"/> | Frontal Oblique |
| <input type="checkbox"/> | Belted 50 th male dummy driver and passenger (0 to 48 kmph) (S5.1.1(a)) |
| <input type="checkbox"/> | Unbelted 50 th male dummy driver and passenger (0 to 48 kmph) (S5.1.2(a)(1)) |
| <input type="checkbox"/> | Unbelted 50 th male dummy driver and passenger (32 to 40 kmph) (S5.1.2(a) (1) or S5.1.2(b)) |
| <input checked="" type="checkbox"/> | Frontal 0° |
| <input type="checkbox"/> | Belted 50 th male dummy driver (0 to 48 kmph) (S5.1.1.(b)(1) or S5.1.1(a)) |
| <input type="checkbox"/> | Belted 50 th male dummy passenger (0 to 48 kmph) (S5.1.1.(b)(1) or S5.1.1(a)) |
| <input type="checkbox"/> | Belted 5 th female dummy driver (0 to 48 kmph) (S16.1(a)) |
| <input type="checkbox"/> | Belted 5 th female dummy passenger (0 to 48 kmph) (S16.1(a)) |
| <input type="checkbox"/> | Belted 50 th male dummy driver and passenger (0 to 56 kmph) (S5.1.1.(b)(2)) |
| <input type="checkbox"/> | Unbelted 50 th male dummy driver and passenger (0 to 48 kmph) (S5.1.2(a) (1)) |
| <input checked="" type="checkbox"/> | Unbelted 50 th male dummy driver (32 to 40 kmph) (S5.1.2.(a)(2) or S5.1.2(b)) |
| <input checked="" type="checkbox"/> | Unbelted 50 th male dummy passenger (32 to 40 kmph) (S5.1.2.(a)(2) or S5.1.2(b)) |

		Unbelted 5 th female dummy driver (32 to 40 kmph) (S16.1(b))
		Unbelted 5 th female dummy passenger (32 to 40 kmph) (S16.1(b))
		40% Offset 0° Belted 5 th male dummy driver and passenger (0 to 40 kmph) (S18.1)
	21.	Sled Test: unbelted 50 th male dummy driver and passenger (S13)
	22.	FMVSS 204 Indicant Test
X	23.	FMVSS 212 Indicant Test
X	24.	FMVSS 219 Indicant Test
X	25.	FMVSS 301 Frontal Indicant Test

For the crash tests, the vehicle was instrumented with 8 accelerometers. The accelerometer data from the vehicle and dummies were sampled at 10,000 samples per second and processed as specified in SAE J211/1 MAR95 and FMVSS 208, S4.13.

The dynamic tests were recorded using high-speed film and high-speed digital video.

The vehicle appears to meet all of the performance requirements to which it was tested.

SECTION 3

INJURY RESULT SUMMARY FOR FMVSS 208 TESTS

Test Vehicle: 2006 Toyota Corolla
 Test Program: FMVSS 208 Compliance

NHTSA No.: C65102
 Test Date: 10/20/05

40 kmph Frontal Crash

Impact Angle: Zero degrees

Belted Dummies: Yes X No
 Speed Range: 0 to 40 kmph X 32 to 40 kmph
 0 to 48 kmph 0 to 56 kmph

Test Speed: 39.9 kmph Test Weight: 1354.5 kg

Driver Dummy: 5th female X 50th male
 Passenger Dummy: 5th female X 50th male

50th Percentile Male Frontal Crash Test Vehicles certified to S5.1.1(b)(1), S5.1.1(b)(2), S5.1.2(a)(2), or S5.1.2(b)

Injury Criteria	Max. Allowable Injury Assessment Values	Driver	Passenger
HIC15	700	274	66
N _{te}	1.0	0.1	0.1
N _{tf}	1.0	0.2	0.1
N _{ce}	1.0	0.1	0.1
N _{cf}	1.0	0.7	0.6
Neck Tension	4170 N	492	428
Neck Compression	4000 N	3375	1667
Chest g	60 g	32	30
Chest Displacement	63 mm	26	9
Left Femur	10,000 N	3639	5102
Right Femur	10,000 N	2954	2475

SECTION 4

DISCUSSION OF TESTS

Test Vehicle: 2006 Toyota Corolla
Test Program: FMVSS 208 Compliance

NHTSA No.: C65102
Test Dates: 10/12/05 -
10/20/05

Top of Engine X was not valid after 40 msec during the frontal impact test.

The post test FMVSS 301 rollover was not conducted at the direction of the COTR.

Driver and passenger H Point ATD positioning CCM data is provided in Appendix D.

SECTION 5
TEST DATA SHEETS

Test Vehicle: 2006 Toyota Corolla
Test Program: FMVSS 208 Compliance

NHTSA No.: C65102
Test Dates: 10/12/05-
10/20/05

DATA SHEET 1

COTR VEHICLE WORK ORDER

Test Vehicle: 2006 Toyota Corolla
 Test Program: FMVSS 208 Compliance

NHTSA No.: C65102
 Test Dates: 10/12/05-
10/20/05

COTR Signature: Charles R. Case

Test to be performed for this vehicle are checked below:

- | | |
|-------------------------------------|---|
| <input checked="" type="checkbox"/> | 1. Rear Outboard Seating Position Seat Belts (S4.1.2(b)) & (S4.2.4) |
| <input checked="" type="checkbox"/> | 2. Air Bag Labels (S4.5.1) |
| <input checked="" type="checkbox"/> | 3. Readiness Indicator (S4.5.2) |
| <input checked="" type="checkbox"/> | 4. Passenger Air Bag Manual Cut-off Device (S4.5.4) |
| <input checked="" type="checkbox"/> | 5. Lap Belt Lockability (S7.1.1.5) |
| <input checked="" type="checkbox"/> | 6. Seat Belt Warning System (S7.3) |
| <input checked="" type="checkbox"/> | 7. Seat Belt Contact Force (S7.4.4) |
| <input checked="" type="checkbox"/> | 8. Seat Belt Latch Plate Access (S7.4.4) |
| <input checked="" type="checkbox"/> | 9. Seat Belt Retraction (S7.4.5) |
| <input checked="" type="checkbox"/> | 10. Seat Belt Guides and Hardware (S7.4.6) |
| <input type="checkbox"/> | 11. Suppression tests with 12-month-old CRABI dummy (Part 572, Subpart R) using the following indicated child restraints. |

Section B

<input type="checkbox"/>	Britax Handle with Care 191	<input type="checkbox"/>	Full Rearward	<input type="checkbox"/>	Mid Position	<input type="checkbox"/>	Full Forward
<input type="checkbox"/>	Century Assura 4553	<input type="checkbox"/>	Full Rearward	<input type="checkbox"/>	Mid Position	<input type="checkbox"/>	Full Forward
<input type="checkbox"/>	Century Avanta SE 41530	<input type="checkbox"/>	Full Rearward	<input type="checkbox"/>	Mid Position	<input type="checkbox"/>	Full Forward
<input type="checkbox"/>	Century Smart Fit 4543	<input type="checkbox"/>	Full Rearward	<input type="checkbox"/>	Mid Position	<input type="checkbox"/>	Full Forward
<input type="checkbox"/>	Cosco Arriva 02727	<input type="checkbox"/>	Full Rearward	<input type="checkbox"/>	Mid Position	<input type="checkbox"/>	Full Forward
<input type="checkbox"/>	Cosco Opus 35 02603	<input type="checkbox"/>	Full Rearward	<input type="checkbox"/>	Mid Position	<input type="checkbox"/>	Full Forward
<input type="checkbox"/>	Evenflo Discovery Adjust Right 212	<input type="checkbox"/>	Full Rearward	<input type="checkbox"/>	Mid Position	<input type="checkbox"/>	Full Forward
<input type="checkbox"/>	Evenflo First Choice 204	<input type="checkbox"/>	Full Rearward	<input type="checkbox"/>	Mid Position	<input type="checkbox"/>	Full Forward
<input type="checkbox"/>	Evenflo On My Way Position Right V 282	<input type="checkbox"/>	Full Rearward	<input type="checkbox"/>	Mid Position	<input type="checkbox"/>	Full Forward
<input type="checkbox"/>	Graco Infant 8457	<input type="checkbox"/>	Full Rearward	<input type="checkbox"/>	Mid Position	<input type="checkbox"/>	Full Forward

Section C

<input type="checkbox"/>	Britax Roundabout 161	<input type="checkbox"/>	Full Rearward	<input type="checkbox"/>	Mid Position	<input type="checkbox"/>	Full Forward
<input type="checkbox"/>	Century Encore 4612	<input type="checkbox"/>	Full Rearward	<input type="checkbox"/>	Mid Position	<input type="checkbox"/>	Full Forward
<input type="checkbox"/>	Century STE 1000 4416	<input type="checkbox"/>	Full Rearward	<input type="checkbox"/>	Mid Position	<input type="checkbox"/>	Full Forward
<input type="checkbox"/>	Cosco Olympian 02803	<input type="checkbox"/>	Full Rearward	<input type="checkbox"/>	Mid Position	<input type="checkbox"/>	Full Forward
<input type="checkbox"/>	Cosco Touriva 02519	<input type="checkbox"/>	Full Rearward	<input type="checkbox"/>	Mid Position	<input type="checkbox"/>	Full Forward
<input type="checkbox"/>	Evenflo Horizon V 425	<input type="checkbox"/>	Full Rearward	<input type="checkbox"/>	Mid Position	<input type="checkbox"/>	Full Forward
<input type="checkbox"/>	Evenflo Medallion 254	<input type="checkbox"/>	Full Rearward	<input type="checkbox"/>	Mid Position	<input type="checkbox"/>	Full Forward

- | | | |
|--------------------------|-----|---|
| <input type="checkbox"/> | 12. | Suppression tests with newborn infant (Part 572, Subpart K) using the following indicated child restraints. |
|--------------------------|-----|---|

Section A

- | | | | | | | | | |
|--------------------------|--------------------------|---|--------------------------|---------------|--------------------------|--------------|--------------------------|--------------|
| <input type="checkbox"/> | <input type="checkbox"/> | Cosco Dream Ride 02-719 | <input type="checkbox"/> | Full Rearward | <input type="checkbox"/> | Mid Position | <input type="checkbox"/> | Full Forward |
| <input type="checkbox"/> | 13. | Suppression tests with 3-year-old dummy (Part 572, Subpart P) using the following indicated child restraints where a child restraint is required. | | | | | | |

Section C

	Britax Roundabout 161		Full Rearward		Mid Position		Full Forward
	Century Encore 4612		Full Rearward		Mid Position		Full Forward
	Century STE 1000 4416		Full Rearward		Mid Position		Full Forward
	Cosco Olympian 02803		Full Rearward		Mid Position		Full Forward
	Cosco Touriva 02519		Full Rearward		Mid Position		Full Forward
	Evenflo Horizon V 425		Full Rearward		Mid Position		Full Forward
	Evenflo Medallion 254		Full Rearward		Mid Position		Full Forward

Section D

	Britax Roadster 9004		Full Rearward		Mid Position		Full Forward
	Century Next Step 4920		Full Rearward		Mid Position		Full Forward
	Cosco High Back Booster 02-442		Full Rearward		Mid Position		Full Forward
	Evenflo Right Fit 245		Full Rearward		Mid Position		Full Forward

14. Suppression tests with representative 3-year-old child using the following indicated child restraints where a child restraint is required. (Appendix H, Data Sheet 16H and 17H)

Section C

	Britax Roundabout 161		Full Rearward		Mid Position		Full Forward
	Century Encore 4612		Full Rearward		Mid Position		Full Forward
	Century STE 1000 4416		Full Rearward		Mid Position		Full Forward
	Cosco Olympian 02803		Full Rearward		Mid Position		Full Forward
	Cosco Touriva 02519		Full Rearward		Mid Position		Full Forward
	Evenflo Horizon V 425		Full Rearward		Mid Position		Full Forward
	Evenflo Medallion 254		Full Rearward		Mid Position		Full Forward

Section D

	Britax Roadster 9004		Full Rearward		Mid Position		Full Forward
	Century Next Step 4920		Full Rearward		Mid Position		Full Forward
	Cosco High Back Booster 02-442		Full Rearward		Mid Position		Full Forward
	Evenflo Right Fit 245		Full Rearward		Mid Position		Full Forward

15. Suppression tests with 3-year-old dummy (Part 572, Subpart P) in the following Forward, Middle, and Rearward seat track positions

	Sitting on seat with back against seat back (S22.2.2.1)
	Sitting on seat with back against reclined seat back (S22.2.2.2)
	Sitting on seat with back not against seat back (S22.2.2.3)
	Sitting on seat edge, spine vertical, hands by the child's side (S22.2.2.4)
	Standing on seat, facing forward (S22.2.2.5)
	Kneeling on seat facing forward (S22.2.2.6)
	Kneeling on seat facing rearward (S22.2.2.7)
	Lying on seat (S22.2.2.8)

16. Suppression tests with representative 3-year-old child in the following positions

	Sitting on seat with back against seat back (S22.2.2.1)
	Sitting on seat with back against reclined seat back (S22.2.2.2)
	Sitting on seat with back not against seat back (S22.2.2.3)
	Sitting on seat edge, spine vertical, hands by the child's side (S22.2.2.4)
	Standing on seat, facing forward (S22.2.2.5)
	Kneeling on seat facing forward (S22.2.2.6)
	Kneeling on seat facing rearward (S22.2.2.7)
	Lying on seat (S22.2.2.8)

17. Suppression tests with 6-year-old dummy (Part 572, Subpart N) using the following indicated child restraints where a child restraint is required.

Section D

	Britax Roadster 9004		Full Rearward		Mid Position		Full Forward
	Century Next Step 4920		Full Rearward		Mid Position		Full Forward
	Cosco High Back Booster 02-442		Full Rearward		Mid Position		Full Forward
	Evenflo Right Fit 245		Full Rearward		Mid Position		Full Forward
18.	Suppression tests with representative 6-year-old child using the following indicated child restraints where a child restraint is required.						

Section D

	Britax Roadster 9004		Full Rearward		Mid Position		Full Forward
	Century Next Step 4920		Full Rearward		Mid Position		Full Forward
	Cosco High Back Booster 02-442		Full Rearward		Mid Position		Full Forward
	Evenflo Right Fit 245		Full Rearward		Mid Position		Full Forward
19.	Suppression tests with 6-year-old dummy (Part 572, Subpart N) in the following Forward, Middle, and Rearward seat track positions						
	Sitting on seat with back against seat back (S22.2.2.1)						
	Sitting on seat with back against reclined seat back (S22.2.2.2)						
	Sitting on seat edge, spine vertical, hands by the child's side (S22.2.2.4)						
	Sitting back in the seat and leaning on the right front passenger door (S24.2.3)						
20.	Suppression tests with representative 6-year-old child in the following positions						
	Sitting on seat with back against seat back (S22.2.2.1)						
	Sitting on seat with back against reclined seat back (S22.2.2.2)						
	Sitting on seat edge, spine vertical, hands by the child's side (S22.2.2.4)						
	Sitting back in the seat and leaning on the right front passenger door (S24.2.3)						
21.	Test of Reactivation of the Passenger Air Bag System with an Unbelted 5 th percentile female dummy (S20.3, 22.3, S24.3). Perform this test after the following suppression tests: After each restraint.						
22.	Test of Reactivation of the passenger air bag system with a representative 5 th percentile female (S20.3, 22.3, S24.3). Perform this test after the following suppression tests:						
23.	Low risk deployment test with 12-month-old dummy (Part 572, Subpart R) using the following indicated child restraints.						

Section B

	Britax Handle with Care 191		Full Rearward		Mid Position		Full Forward
	Century Assura 4553		Full Rearward		Mid Position		Full Forward
	Century Avanta SE 41530		Full Rearward		Mid Position		Full Forward
	Century Smart Fit 4543		Full Rearward		Mid Position		Full Forward
	Cosco Arriva 02727		Full Rearward		Mid Position		Full Forward
	Cosco Opus 35 02603		Full Rearward		Mid Position		Full Forward
	Evenflo Discovery Adjust Right 212		Full Rearward		Mid Position		Full Forward
	Evenflo First Choice 204		Full Rearward		Mid Position		Full Forward
	Evenflo On My Way Position Right V 282		Full Rearward		Mid Position		Full Forward
	Graco Infant 8457		Full Rearward		Mid Position		Full Forward

Section C

	Britax Roundabout 161		Full Rearward		Mid Position		Full Forward
	Century Encore 4612		Full Rearward		Mid Position		Full Forward
	Century STE 1000 4416		Full Rearward		Mid Position		Full Forward
	Cosco Olympian 02803		Full Rearward		Mid Position		Full Forward
	Cosco Touriva 02519		Full Rearward		Mid Position		Full Forward
	Evenflo Horizon V 425		Full Rearward		Mid Position		Full Forward
	Evenflo Medallion 254		Full Rearward		Mid Position		Full Forward

	24.	Low risk deployment test with 3-year-old dummy (Part 572, Subpart P) in the following positions
		Position 1
		Position 2
	25.	Low risk deployment test with 6-year-old dummy (Part 572, Subpart N) in the following positions
		Position 1
		Position 2
	26.	Low risk deployment test with 5 th percentile female dummy (Part 572, Subpart O) in the following positions
		Position 1
		Position 2
X	27.	Impact Tests
		Frontal Oblique – Test Speed:
		Belted 50 th male dummy driver and passenger (0 to 48 kmph) (S5.1.1(a))
		Unbelted 50 th male dummy driver and passenger (0 to 48 kmph) (S5.1.2(a)(1))
		Unbelted 50 th male dummy driver and passenger (32 to 40 kmph) (S5.1.2(a) (1) or S5.1.2(b))
X		Frontal 0° - Test Speed: 39.9 kmph
		Belted 50 th male dummy driver (0 to 48 kmph) (S5.1.1.(b)(1) or S5.1.1(a))
		Belted 50 th male dummy passenger (0 to 48 kmph) (S5.1.1.(b)(1) or S5.1.1(a))
		Belted 5 th female dummy driver (0 to 48 kmph) (S16.1(a))
		Belted 5 th female dummy passenger (0 to 48 kmph) (S16.1(a))
		Belted 50 th male dummy driver and passenger (0 to 56 kmph) (S5.1.1.(b)(2))
		Unbelted 50 th male dummy driver and passenger (0 to 48 kmph) (S5.1.2(a) (1))
		X Unbelted 50 th male dummy driver (32 to 40 kmph) (S5.1.2.(a)(2) or S5.1.2(b))
		X Unbelted 50 th male dummy passenger (32 to 40 kmph) (S5.1.2.(a)(2) or S5.1.2(b))
		Unbelted 5 th female dummy driver (32 to 40 kmph) (S16.1(b))
		Unbelted 5 th female dummy passenger (32 to 40 kmph) (S16.1(b))
		40% Offset 0° Belted 5 th male dummy driver and passenger (0 to 40 kmph) (S18.1)
		– Test Speed:
	28.	Sled Test: Unbelted 50 th male dummy driver and passenger (S13)
	29.	FMVSS 204 Indicant Test
X	30.	FMVSS 212 Indicant Test
X	31.	FMVSS 219 Indicant Test
X	32.	FMVSS 301 Frontal Indicant Test

DATA SHEET 2
REPORT OF VEHICLE CONDITION

Test Vehicle: 2006 Toyota Corolla
Test Program: FMVSS 208 Compliance

NHTSA No.: C65102
Test Dates: 10/12/05-
10/20/05

CONTRACT NO. DTNH22- 03-D-11002
FROM (Lab and rep name): MGA Research Corporation
TO: NHTSA, OVSC (NVS-220)

Date: 10/27/05

PURPOSE: (X) Initial Receipt () Received via Transfer (X) Present vehicle condition

MODEL YEAR/MAKE/MODEL/BODY STYLE: 2006 Toyota Corolla
MANUFACTURE DATE: 08/05
NHTSA NO. C65102 GVWR: 1626 kg (3585 lbs)
BODY COLOR: Silver GAWR (Fr): 855 kg (1885 lbs)
VIN: JTDBR32E560058140 GAWR (Rr): 780 kg (1720 lbs)

ODOMETER READINGS: ARRIVAL (miles): 138 DATE: 9/30/05
COMPLETION (miles): 141 DATE: 10/20/05

PURCHASE PRICE: (\$) 14,979

DEALER'S NAME: Safro Imports of Brookfield; 20445 W Capital Dr; Brookfield WI 53008.

- A. All options listed on window sticker are present on the test vehicle:
X Yes ___ No
- B. Tires and wheel rims are new and the same as listed: X Yes ___ No
- C. There are no dents or other interior or exterior flaws: X Yes ___ No
- D. The vehicle has been properly prepared and is in running condition:
X Yes ___ No
- E. Keyless remote is available and working: X Yes ___ No
- F. The glove box contains an owner's manual, warranty document, consumer information, and extra set of keys: X Yes ___ No
- G. Proper fuel filler cap is supplied on the test vehicle: X Yes ___ No
- H. Using permanent marker, identify vehicle with NHTSA number and FMVSS test type(s) on roof line above driver door or for school buses, place a placard with NHTSA number inside the windshield and to the exterior front and rear side of bus:
X Yes ___ No
- I. Place vehicle in storage area: X Yes ___ No
- J. Inspect the vehicle's interior and exterior, including all windows, seats, doors, etc. to confirm that each system is complete and functional per the manufacturer's specifications. Any damage, misadjustment, or other unusual condition that could influence the test program or test results shall be recorded. Report any abnormal condition to the NHTSA COTR before beginning any test:
X Vehicle OK ___ Conditions reported below

REPORT OF VEHICLE CONDITION AT THE COMPLETION OF TESTING

LIST OF FMVSS TESTS PERFORMED BY THIS LAB: FMVSS 208, 212, 219, 301

VEHICLE: 2006 Toyota Corolla NHTSA NO. C65102

REMARKS:

Equipment that is no longer on the test vehicle as noted on previous page:

Spare tire, jack & tools, trunk interior & divider

Explanation for equipment removal:

Components removed for instrumentation installation and to meet target weight.

Test Vehicle Condition:

25 mph frontal impact damage- front suspension & structure damaged, hood & front quarter panels damaged, radiator damaged, air bags & pretensioners deployed, Stoddard in fuel system

RECORDED BY: Jeff Lewandowski DATE: 10/27/05

APPROVED BY: David Winkelbauer DATE: 10/27/05

#####

RELEASE OF TEST VEHICLE

The vehicle described above is released from MGA to be delivered to:

Date: Time: Odometer:

Lab Rep's Signature:

Title:

Carrier/Customer Rep:

Date:

DATA SHEET 3

CERTIFICATION LABEL AND TIRE PLACARD INFORMATION

Test Vehicle: 2006 Toyota Corolla
Test Program: FMVSS 208 Compliance
Test Technician: Nick Kosinski

NHTSA No.: C65102
Test Date: 10/20/05

Certification Label	
Manufacturer:	Toyota Motor Corporation
Date of Manufacture:	08/05
VIN:	JTDBR32E560058140
Vehicle Certified As (Pass. Car/MPV/Truck/Bus):	Passenger Car
Front Axle GVWR:	855 kg (1885 lbs)
Rear Axle GVWR:	780 kg (1720 lbs)
Total GVWR:	1626 kg (3585 lbs)

Tire Placard	
Not applicable, vehicle is not a passenger car and does not have a tire placard.	Passenger Car
This is not a passenger car, but all or part of this information is still contained on a vehicle label and is reported here.	Passenger Car
Vehicle Capacity Weight:	385 kg (850 lbs)
Designated Seating Capacity Front:	2
Designated Seating Capacity Rear:	3
Total Designated Seating Capacity:	5
Recommended Cold Tire Inflation Pressure Front:	210 kpa (30 psi)
Recommended Cold Tire Inflation Pressure Rear:	210 kpa (30 psi)
Recommended Tire Size:	P185/65R15

Signature: 

Date: 10/20/05

DATA SHEET 4

REAR OUTBOARD SEATING POSITION SEAT BELTS

Test Vehicle: 2006 Toyota Corolla 4 Door
Test Program: FMVSS 208 Compliance
Test Technician: Nick Kosinski

NHTSA No.: C65102
Test Date: 10/12/05

	Yes	No
Do all rear outboard seating positions have Type 2 seat belts?	X	

If NO, describe the seat belt installed, the seat location, and any other information about the seat that would explain why a Type 2 seat belt was not installed.

REMARKS:

Signature: _____

Nick Kosinski

Date: 10/12/05

DATA SHEET 5 **AIR BAG LABELS (S4.5.1)**

Test Vehicle: 2006 Toyota Corolla 4 Door
 Test Program: FMVSS 208 Compliance
 Test Technician: Nick Kosinski

NHTSA No.: C65102
 Test Date: 10/12/05

- | | | |
|-------------------------------------|-----|--|
| <input checked="" type="checkbox"/> | 1. | Air bag maintenance label and owner's manual instructions: (S4.5.1(a)) |
| <input checked="" type="checkbox"/> | 1.1 | Does the manufacturer recommend periodic maintenance or replacement of the air bag? |
| | | <input type="checkbox"/> Yes, go to 1.2 |
| | | <input checked="" type="checkbox"/> No – go to 2 |
| <input type="checkbox"/> | 1.2 | Does the vehicle have a label specifying air bag maintenance or replacement? |
| | | <input type="checkbox"/> Yes – Pass |
| | | <input type="checkbox"/> No – Fail |
| <input type="checkbox"/> | 1.3 | Does the label contain one of the following? |
| | | <input type="checkbox"/> Yes – Pass |
| | | <input type="checkbox"/> No – Fail |
| | | Check applicable schedule: |
| | | ___ Schedule on label specifies month and year (Record date_____) |
| | | ___ Schedule on label specified vehicle mileage (Record mileage_____) |
| | | ___ Schedule on label specifies interval measured from date on certification label (Record interval_____) |
| <input type="checkbox"/> | 1.4 | Is the label permanently affixed within the passenger compartment such that it cannot be removed without destroying or defacing the label or the sunvisor? |
| | | <input type="checkbox"/> Yes – Pass |
| | | <input type="checkbox"/> No – Fail |
| <input type="checkbox"/> | 1.5 | Is the label lettered in English? |
| | | <input type="checkbox"/> Yes – Pass |
| | | <input type="checkbox"/> No – Fail |
| <input type="checkbox"/> | 1.6 | Is the label in block capitals and numerals? |
| | | <input type="checkbox"/> Yes – Pass |
| | | <input type="checkbox"/> No – Fail |
| <input type="checkbox"/> | 1.7 | Are the letters and numerals at least 3/32 inches high? |
| | | <input type="checkbox"/> Yes – Pass |
| | | <input type="checkbox"/> No – Fail |
| <input type="checkbox"/> | 1.8 | Does the owner's manual set forth the recommended schedule for maintenance or replacement? |
| <input checked="" type="checkbox"/> | 2. | Does the owner's manual: (S4.5.1(f)) |
| <input checked="" type="checkbox"/> | 2.1 | Include a description of the vehicle's air bag system in an easily understandable format? |
| | | <input checked="" type="checkbox"/> Yes – Pass |
| | | <input type="checkbox"/> No – Fail |
| <input checked="" type="checkbox"/> | 2.2 | Include a statement that the vehicle is equipped with an air bag and a lap/shoulder belt at the front outboard seating position? |
| | | <input checked="" type="checkbox"/> Yes – Pass |
| | | <input type="checkbox"/> No – Fail |

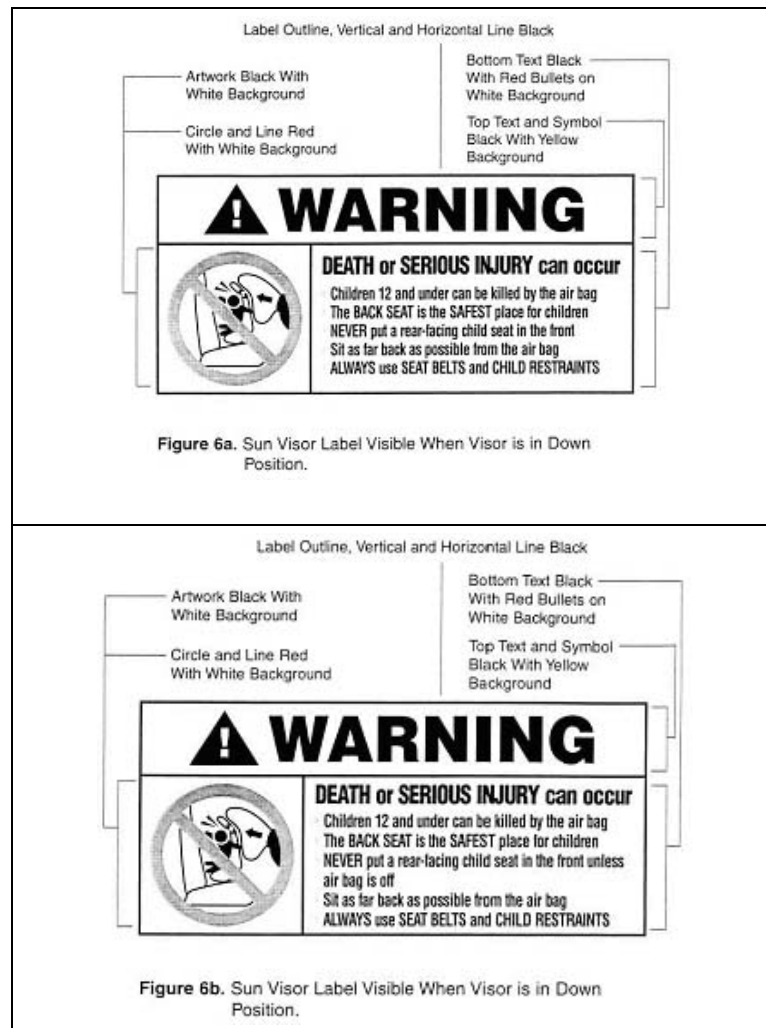
- ☒ 2.3 Include a statement that the air bag is a supplement restraint at the front outboard seating position?
☒ Yes – Pass
☐ No – Fail
- ☒ 2.4 Emphasize that all occupants, including the driver, should always wear their seat belts whether or not an air bag is also provided at their seating positions to minimize the risk of severe injury or death in the event of a crash?
☒ Yes – Pass
☐ No – Fail
- ☒ 2.5 Provide any necessary precautions regarding the proper positioning of occupants, including children, at seating positions equipped with air bags to ensure maximum safety protection for those occupants?
☒ Yes – Pass
☐ No – Fail
- ☒ 2.6 Explain that no objects should be placed over or near the air bag on the steering wheel or on the instrument panel, because any such objects could cause harm if the vehicle is in a crash severe enough to cause the air bag to inflate?
☒ Yes – Pass
☐ No – Fail
- ☒ 2.7 Is the vehicle certified to meet the requirements of S14.5, S15, S17, S19, S21, S23, and S25? (Obtain answer from COTR) (S4.5.1(f)(2))
☒ Yes – (Go to 2.7.1)
☐ No – (Go to 3.)
- ☒ 2.7.1 Explain the proper functioning of the advanced air bag system? (S4.5.1(f)(2))
☒ Yes – Pass
☐ No – Fail
- ☒ 2.7.2 Provide a summary of the actions that may affect the proper functioning of the system? (S4.5.1(f)(2))
☒ Yes – Pass
☐ No – Fail
- ☒ 2.7.3 Present and explain the main components of the advanced passenger air bag system? (S4.5.1(f)(2)(i))
☒ Yes – Pass
☐ No – Fail
- ☒ 2.7.4 Explain how the components function together as part of the advanced passenger air bag system? (S4.5.1(f)(2)(ii))
☒ Yes – Pass
☐ No – Fail
- ☒ 2.7.5 Contain the basic requirements for proper operation, including an explanation of the actions that may affect the proper functioning of the system? (S4.5.1(f)(2)(iii))
☒ Yes – Pass
☐ No – Fail
- ☒ 2.7.6 Is the vehicle certified to the requirements of S19.2, S21.2, or 23.2 (automatic suppression)?
☒ Yes, continue with 2.7.6
☐ No, go to 2.7.7

- ☒ 2.7.6.1 Contain a complete description of the passenger air bag suppression system installed in the vehicle, including a discussion of any suppression zone? (S4.5.1(f)(2)(iv))
- ☒ Yes – Pass
☐ No – Fail
- ☒ 2.7.6.2 Discuss the telltale light, specifying its location in the vehicle and explaining when the light is illuminated?
- ☒ Yes – Pass
☐ No – Fail
- ☒ 2.7.7 Explain the interaction of the advanced passenger air bag system with other vehicle components, such as seat belts, seats or other components? (S4.5.1(f)(2)(v))
- ☒ Yes – Pass
☐ No – Fail
- ☒ 2.7.8 Summarize the expected outcomes when child restraint systems, children and small teenagers or adults are both properly and improperly positioned in the passenger seat, including cautionary advice against improper placement of child restraint systems? (S4.5.1(f)(2)(vi))
- ☒ Yes – Pass
☐ No – Fail
- ☒ 2.7.9 Provide information on how to contact the vehicle manufacturer concerning modifications for persons with disabilities that may affect the advanced air bag system? (S4.5.1(f)(2)(vii))
- ☒ Yes – Pass
☐ No – Fail
- ☒ 3. Sun Visor Air Bag Warning Label (S4.5.1(b)) Check only one of the following:
- ☐ The vehicle is not certified to meet the requirements of S19, S21, and S23 (Obtain answer from COTR) (S4.5.1(b)(1)) Go to 3.1 and skip 3.2 and 3.3
- ☐ The vehicle is certified to meet the requirements of S19, S21, and S23 before 9/1/03. (Obtain answer from COTR) (S4.5.1(b)(2)) Go to 3.2 and skip 3.1 and 3.3
- ☒ The vehicle is certified to meet the requirements of S19, S21, and S23 on 9/1/03 or later. (Obtain answer from COTR) (S4.5.1(b)(3)) Go to 3.3 and skip 3.1 and 3.2
- ☐ 3.1 Vehicles not certified to meet the requirements of S19, S21, and S23.
- ☐ 3.1.1 Is the label permanently affixed (including permanent marking on the visor material or molding into the visor material) to either side of the sun visor at each front outboard seating position such that it cannot be removed without destroying or defacing it? (S4.5.1(b)(1))
- ☐ Driver Side, Yes – Pass
☐ Driver Side, No – Fail
☐ Passenger Side, Yes – Pass
☐ Passenger Side, No – Fail



3.1.2

Does the label conform in content to the label shown in either Figure 6A or 6B (Figure 6b is for vehicles with passenger air bag on-off switches), as appropriate, at each front outboard seating position? (S4.5.1(b)(1)) (Vehicles without back seats may omit the statement: "The back seat is the safest place for children." (S4.5.1(b)(1)(iv))



Driver Side, Yes – Pass



Driver Side, No – Fail



Passenger Side, Yes – Pass



Passenger Side, No – Fail



3.1.3

Is the label heading area yellow with the word "WARNING" and the alert symbol in black? (S4.5.1(b)(1)(i))



Driver Side, Yes – Pass



Driver Side, No – Fail



Passenger Side, Yes – Pass



Passenger Side, No – Fail



3.1.4

Is the message area white with black text? (S4.5.1(b)(1)(ii))



Driver Side, Yes – Pass



Driver Side, No – Fail



Passenger Side, Yes – Pass



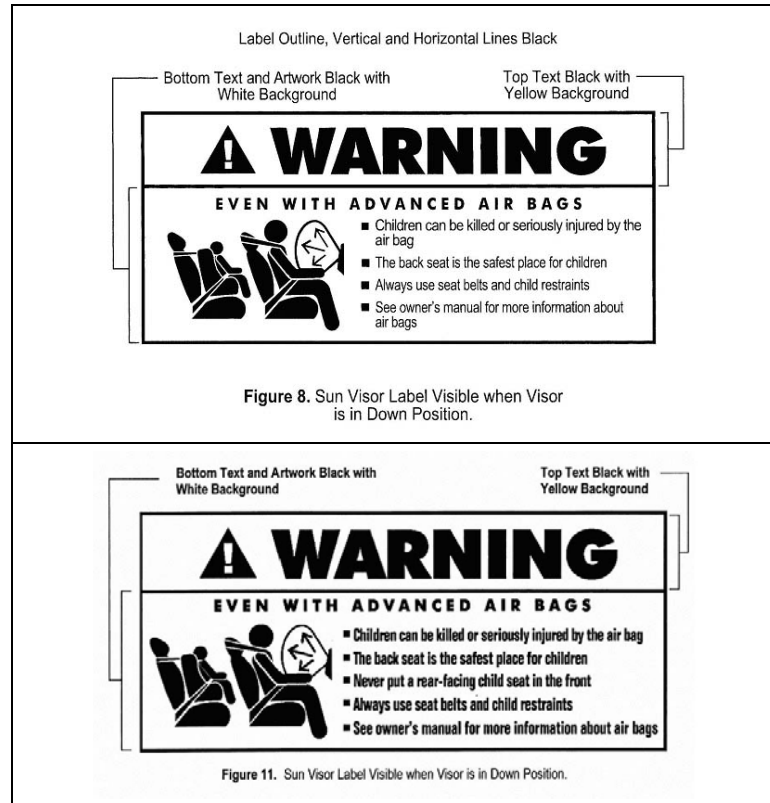
Passenger Side, No – Fail

- ☐ 3.1.5 Is the message area at least 30 cm²? (S4.5.1(b)(1)(ii))
 Driver Side: Length ___, Width ____
 Passenger Side: Length ___, Width ____
 Actual message area ___ cm²
☐ Driver Side, Yes – Pass
☐ Driver Side, No – Fail
☐ Passenger Side, Yes – Pass
☐ Passenger Side, No – Fail
- ☐ 3.1.6 Is the pictogram black with a red circle and slash on a white background? (S4.5.1(b)(2)(iii))
☐ Driver Side, Yes – Pass
☐ Driver Side, No – Fail
☐ Passenger Side, Yes – Pass
☐ Passenger Side, No – Fail
- ☐ 3.1.7 Is the pictogram at least 30 mm in diameter? (S4.5.1(b)(2)(iii))
 Actual diameter ___ mm
☐ Driver Side, Yes – Pass
☐ Driver Side, No – Fail
☐ Passenger Side, Yes – Pass
☐ Passenger Side, No – Fail
- ☐ 3.2 Vehicles certified to meet the requirements of S19, S21, and S23 before 9/1/03.
- ☐ 3.2.1 Is the label permanently affixed (including permanent marking on the visor material or molding into the visor material) to either side of the sun visor at each front outboard seating position such that it cannot be removed without destroying or defacing the label or the sun visor? (S4.5.1(b)(2))
☐ Driver Side, Yes – Pass
☐ Driver Side, No – Fail
☐ Passenger Side, Yes – Pass
☐ Passenger Side, No – Fail



3.2.2

Does the label conform in content to the label shown in either Figure 8 or 11 at each front outboard seating position? (S4.5.1(b)(2)) (Vehicles without back seats may omit the statement: "The back seat is the safest place for children." (S4.5.1(b)(2)(iv)) Vehicles without back seats or the back seat is too small to accommodate a rear-facing child restraint may omit the statement "Never put a rear-facing child seat in the front."(S4.5.1(b)(2)(v))



- Driver Side, Yes – Pass
- Driver Side, No – Fail
- Passenger Side, Yes – Pass
- Passenger Side, No – Fail



3.2.3

Is the label heading area yellow with the word "WARNING" and the alert symbol in black? (S4.5.1(b)(2)(i))



- Driver Side, Yes – Pass
- Driver Side, No – Fail
- Passenger Side, Yes – Pass
- Passenger Side, No – Fail



3.2.4

Is the message area white with black text? (S4.5.1(b)(2)(ii))



- Driver Side, Yes – Pass
- Driver Side, No – Fail
- Passenger Side, Yes – Pass
- Passenger Side, No – Fail

<input type="checkbox"/>	3.2.5	Is the message area at least 30 cm ² ? (S4.5.1(b)(2)(ii)) Driver Side: Length_____, Width_____ Passenger Side: Length_____, Width_____ Actual message area _____ cm ²
	<input type="checkbox"/>	Driver Side, Yes – Pass
	<input type="checkbox"/>	Driver Side, No – Fail
	<input type="checkbox"/>	Passenger Side, Yes – Pass
	<input type="checkbox"/>	Passenger Side, No – Fail
<input type="checkbox"/>	3.2.6	Is the pictogram black on a white background? (S4.5.1(b)(2)(iii))
	<input type="checkbox"/>	Driver Side, Yes – Pass
	<input type="checkbox"/>	Driver Side, No – Fail
	<input type="checkbox"/>	Passenger Side, Yes – Pass
	<input type="checkbox"/>	Passenger Side, No – Fail
<input type="checkbox"/>	3.2.7	Is the pictogram at least 30 mm (1.2 inches) in length? (S4.5.1(b)(2)(iii)) Driver Side: Length_____ Passenger Side: Length_____
	<input type="checkbox"/>	Driver Side, Yes – Pass
	<input type="checkbox"/>	Driver Side, No – Fail
	<input type="checkbox"/>	Passenger Side, Yes – Pass
	<input type="checkbox"/>	Passenger Side, No – Fail
<input checked="" type="checkbox"/>	3.3	Vehicles certified to meet the requirements of S19, S21, and S23 on 9/1/03 and later. (S4.5.1(b)(3))
<input checked="" type="checkbox"/>	3.3.1	Is the label permanently affixed (including permanent marking on the visor material or molding into the visor material) to either side of the sun visor at each front outboard seating position such that it cannot be removed without destroying or defacing the label or the sun visor? (S4.5.1(b)(3))
	<input checked="" type="checkbox"/>	Driver Side, Yes – Pass
	<input type="checkbox"/>	Driver Side, No – Fail
	<input checked="" type="checkbox"/>	Passenger Side, Yes – Pass
	<input type="checkbox"/>	Passenger Side, No – Fail

X

3.3.2

Does the label conform in content to the label shown in Figure 11 at each front outboard seating position? (S4.5.1(b)(2)) (Vehicles without back seats may omit the statement: "The back seat is the safest place for children." (S4.5.1(b)(3)(iv)) Vehicles without back seats or the back seat is too small to accommodate a rear-facing child restraint may omit the statement "Never put a rear-facing child seat in the front." (S4.5.1(b)(3)(v))



Figure 11. Sun Visor Label Visible when Visor is in Down Position.

X

Driver Side, Yes – Pass

Driver Side, No – Fail

X

Passenger Side, Yes – Pass

Passenger Side, No – Fail

X

3.3.3

Is the label heading area yellow with the word "WARNING" and the alert symbol in black? (S4.5.1(b)(3)(i))

X

Driver Side, Yes – Pass

Driver Side, No – Fail

X

Passenger Side, Yes – Pass

Passenger Side, No – Fail

X

3.3.4

Is the message area white with black text? (S4.5.1(b)(3)(ii))

X

Driver Side, Yes – Pass

Driver Side, No – Fail

X

Passenger Side, Yes – Pass

Passenger Side, No – Fail

X

3.3.5

Is the message area at least 30 cm²? (S4.5.1(b)(3)(ii))

Driver Side: Length 11 cm , Width 3 cm

Passenger Side: Length 11 cm, Width 3 cm

Driver Actual message area 33 cm²

Passenger Actual message area 33 cm²

X

Driver Side, Yes – Pass

Driver Side, No – Fail

X

Passenger Side, Yes – Pass

Passenger Side, No – Fail

☒ 3.3.6 Is the pictogram black on a white background? (S4.5.1(b)(3)(iii))

☒ Driver Side, Yes – Pass

☐ Driver Side, No – Fail

☒ Passenger Side, Yes – Pass

☐ Passenger Side, No – Fail

☒ 3.3.7 Is the pictogram at least 30 mm (1.2 inches) in length? (S4.5.1(b)(3)(iii))

Driver Side: Length 35 mm

Passenger Side: Length 35 mm

☒ Driver Side, Yes – Pass

☐ Driver Side, No – Fail

☒ Passenger Side, Yes – Pass

☐ Passenger Side, No – Fail

☒ 3.4 Is the same side of the sun visor that contains the air bag warning label free of other information with the exception of the air bag maintenance label and/or the rollover-warning label? (S4.5.1(b)(5)(i))

☒ Driver Side, Yes – Pass

☐ Driver Side, No – Fail

☒ Passenger Side, Yes – Pass

☐ Passenger Side, No – Fail

☒ 3.5 Is the sun visor free of other information about air bags or the need to wear seat belts with the exception of the air bag alert label and/or the rollover-warning label? (S4.5.1(b)(5)(ii))

☒ Driver Side, Yes – Pass

☐ Driver Side, No – Fail

☒ Passenger Side, Yes – Pass

☐ Passenger Side, No – Fail

☒ 3.6 Does the driver side visor contain a rollover-warning label on the same side of the visor as the air bag warning label?

 Yes, go to 3.6.1

 X No, go to 4 (skipping 3.6.1 through 3.6.3)

☐ 3.6.1 Are both the rollover-warning label and the air bag warning label surrounded by a continuous solid-lined border?

 Yes, go to 3.6.2 and skip 3.6.3

 No, go to 3.6.3 and skip 3.6.2

☐ 3.6.2 Is the shortest distance from the border of the rollover label to the border of the air bag warning label at least 1 cm? (575.105 (d)(1)(iv)(B))

 actual distance

<input type="checkbox"/>	3.6.3	<p>Is the shortest distance from any of the lettering or graphics on the rollover-warning label to any of the lettering or graphics of the air bag warning label at least 3 cm? (575.105 (d)(1)(iv)(A))</p> <p>_____actual distance</p> <p>___Yes-Pass ___No-FAIL</p>										
<input checked="" type="checkbox"/>	4.	<p>Air Bag Alert Label (S4.5.1(c) (A "Rollover Warning Label" or "Rollover Alert Label" may be on the same side of the driver's sun visor as the "Air Bag Alert Label." 575.105(d))</p>										
<input checked="" type="checkbox"/>	4.1	<p>Is the sun visor warning label visible when the sun visor is in the stowed position?</p> <table border="0" style="margin-left: 20px;"> <tr><td><input checked="" type="checkbox"/></td><td>If yes for driver and passenger, go to 5.</td></tr> <tr><td><input checked="" type="checkbox"/></td><td>Driver Side, Yes</td></tr> <tr><td><input type="checkbox"/></td><td>Driver Side, No</td></tr> <tr><td><input checked="" type="checkbox"/></td><td>Passenger Side, Yes</td></tr> <tr><td><input type="checkbox"/></td><td>Passenger Side, No</td></tr> </table>	<input checked="" type="checkbox"/>	If yes for driver and passenger, go to 5.	<input checked="" type="checkbox"/>	Driver Side, Yes	<input type="checkbox"/>	Driver Side, No	<input checked="" type="checkbox"/>	Passenger Side, Yes	<input type="checkbox"/>	Passenger Side, No
<input checked="" type="checkbox"/>	If yes for driver and passenger, go to 5.											
<input checked="" type="checkbox"/>	Driver Side, Yes											
<input type="checkbox"/>	Driver Side, No											
<input checked="" type="checkbox"/>	Passenger Side, Yes											
<input type="checkbox"/>	Passenger Side, No											
<input type="checkbox"/>	4.2	<p>Is the air bag alert label permanently affixed (including permanent marking on the visor material or molding into the visor material) to the sun visor at each front outboard seating position such that it cannot be removed without destroying or defacing the label or the sun visor? (S4.5.1(c))</p> <table border="0" style="margin-left: 20px;"> <tr><td><input type="checkbox"/></td><td>Driver Side, Yes - Pass</td></tr> <tr><td><input type="checkbox"/></td><td>Driver Side, No - Fail</td></tr> <tr><td><input type="checkbox"/></td><td>Passenger Side, Yes - Pass</td></tr> <tr><td><input type="checkbox"/></td><td>Passenger Side, No - Fail</td></tr> </table>	<input type="checkbox"/>	Driver Side, Yes - Pass	<input type="checkbox"/>	Driver Side, No - Fail	<input type="checkbox"/>	Passenger Side, Yes - Pass	<input type="checkbox"/>	Passenger Side, No - Fail		
<input type="checkbox"/>	Driver Side, Yes - Pass											
<input type="checkbox"/>	Driver Side, No - Fail											
<input type="checkbox"/>	Passenger Side, Yes - Pass											
<input type="checkbox"/>	Passenger Side, No - Fail											
<input type="checkbox"/>	4.3	<p>Is the air bag alert label visible when the visor is in the stowed position? (S4.5.1(c))</p> <table border="0" style="margin-left: 20px;"> <tr><td><input type="checkbox"/></td><td>Driver Side, Yes - Pass</td></tr> <tr><td><input type="checkbox"/></td><td>Driver Side, No - Fail</td></tr> <tr><td><input type="checkbox"/></td><td>Passenger Side, Yes - Pass</td></tr> <tr><td><input type="checkbox"/></td><td>Passenger Side, No - Fail</td></tr> </table>	<input type="checkbox"/>	Driver Side, Yes - Pass	<input type="checkbox"/>	Driver Side, No - Fail	<input type="checkbox"/>	Passenger Side, Yes - Pass	<input type="checkbox"/>	Passenger Side, No - Fail		
<input type="checkbox"/>	Driver Side, Yes - Pass											
<input type="checkbox"/>	Driver Side, No - Fail											
<input type="checkbox"/>	Passenger Side, Yes - Pass											
<input type="checkbox"/>	Passenger Side, No - Fail											



4.4 Does the label conform in content to the label shown in Figure 6C? (S4.5.1(c))

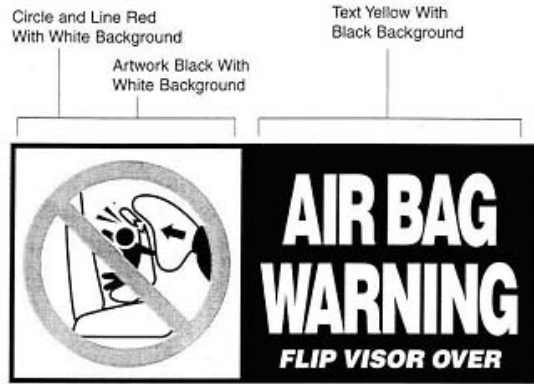


Figure 6c. Sun Visor Label Visible When Visor is in Up Position.



- Driver Side, Yes - Pass
- Driver Side, No - Fail
- Passenger Side, Yes - Pass
- Passenger Side, No - Fail



4.5 Is the message area black with yellow text? (S4.5.1(c)(1))



- Driver Side, Yes - Pass
- Driver Side, No - Fail
- Passenger Side, Yes - Pass
- Passenger Side, No - Fail



4.6 Is the message area at least 20 cm²? (S4.5.1(c)(1))

Driver Side: Length _____, Width _____
 Passenger Side: Length _____, Width _____
 Actual message area _____



- Driver Side, Yes - Pass
- Driver Side, No - Fail
- Passenger Side, Yes - Pass
- Passenger Side, No - Fail



4.7 Is the pictogram black with a red circle and slash on a white background? (S4.5.1(c)(2))



- Driver Side, Yes - Pass
- Driver Side, No - Fail
- Passenger Side, Yes - Pass
- Passenger Side, No - Fail

- ☐ 4.8 Is the pictogram at least 20 mm in diameter? (S4.5.1(c)(2))
 Driver Side Diameter ____ mm
 Passenger Side Diameter ____ mm
☐ Driver Side, Yes – Pass
☐ Driver Side, No - Fail
☐ Passenger Side, Yes - Pass
☐ Passenger Side, No - Fail
- ☒ 5. Label on the Dashboard
- ☒ 5.1 Is the vehicle certified to meet the requirements of S19, S21, and S23? (Obtain answer from COTR) (S4.5.1(3)(2))
☒ Yes, go to 5.1.1 and **skip 5.2**
☐ No, go to 5.2, skipping 5.1.1 through 5.1.6
- ☒ 5.1.1 Does the vehicle have a label on the dash or steering wheel hub? (S4.5.1(e)(2))
☒ Yes - Pass
☐ No - Fail
- ☒ 5.1.2 Is the label clearly visible from all front seating positions? (S4.5.1(e)(2))
☒ Yes - Pass
☐ No - Fail
- ☒ 5.1.3 Does the label conform in content to the label shown in Figure 9? (S4.5.1(e)(2))
 Vehicles without back seats may omit the statement: "The back seat is the safest place for children." (S4.5.1(e)(2)(iii))
☒ Yes - Pass
☐ No - Fail



Figure 9. Removable Label on Dash.

- ☒ 5.1.4 Is the heading area yellow with black text? (S4.5.1(e)(2)(i))
☒ Yes - Pass
☐ No - Fail
- ☒ 5.1.5 Is the message white with black text? (S4.5.1(e)(2)(ii))
☒ Yes - Pass
☐ No - Fail

- ☒ 5.1.6 Is the message area at least 30 cm²? (S4.5.1(e)(2)(ii))
Length 10.3 cm , Width 3.3 cm
Actual message area 34 cm²
- ☒ Yes - Pass
☐ No - Fail
- ☐ 5.2 Does the vehicle have a label on the dash or steering wheel hub? (S4.5.1(e)(1))
- ☐ Yes - Pass
☐ No - Fail
- ☐ 5.2.1 Is the label clearly visible from all front seating positions? (S4.5.1(e)(1))
- ☐ Yes - Pass
☐ No - Fail
- ☐ 5.2.2 Does the label conform in content to the label shown in Figure 7? (S4.5.1(e)(1)(iii))
Vehicles without back seats may omit the statement: "The back seat is the safest place for children." (S4.5.1(e)(2)(iii))
- ☐ Yes - Pass
☐ No - Fail

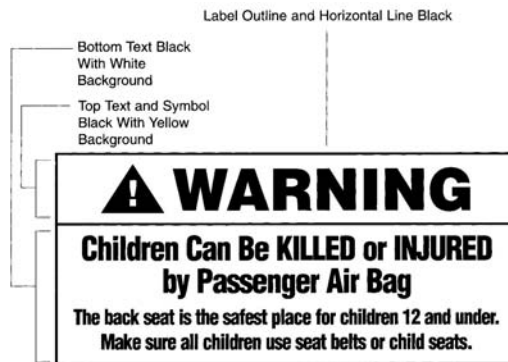


Figure 7. Removable Label on Dash.

- ☐ 5.2.3 Is the heading area yellow with the word "WARNING" and the alert symbol in black? (S4.5.1(e)(1)(i))
- ☐ Yes – Pass
☐ No - Fail
- ☐ 5.2.4 Is the message white with black text? (S4.5.1(e)(1)(ii))
- ☐ Yes – Pass
☐ No - Fail



5.2.5 Is the message area at least 30 cm²? (S4.5.1(e)(1)(ii))

Length __, Width ____

Actual message area __ cm²



Yes – Pass



No - Fail

I certify that I have read and performed each instruction.

Signature:

Rich Kosinski

Date:

10/12/05

DATA SHEET 6

FMVSS 208 READINESS INDICATOR (S4.5.2)

Test Vehicle: 2006 Toyota Corolla 4 Door
Test Program: FMVSS 208 Compliance
Test Technician: Nick Kosinski

NHTSA No.: C65102
Test Date: 10/12/05

An occupant restraint system that deploys in the event of a crash shall have a monitoring system with a readiness indicator. A totally mechanical system is exempt from this requirement. (11/8/94 legal interpretation to Lawrence F. Hennegerger on behalf of Breed)

- ☒ 1. Is the system totally mechanical? If Yes, this data sheet is complete.
☐ Yes
☒ No
- ☒ 2. Describe the location of the readiness indicator: Center Dash
- ☒ 3. Is the readiness indicator clearly visible to the driver?
☒ Yes – Pass
☐ No - Fail
- ☒ 4. Is a list of the elements in the occupant restraint system, being monitored by the readiness indicator, provided on a label or in the owner's manual?
☒ Yes – Pass
☐ No - Fail
- ☒ 5. Does the vehicle have an on-off switch for the passenger air bag?
☐ If Yes, go to 6
☒ If No, this form is complete.
- ☐ 6. Is the air bag readiness indicator off when the passenger air bag switch is in the off position?
☐ Yes – Pass
☐ No - Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: _____

Nick Kosinski

Date: 10/12/05

DATA SHEET 7

PASSENGER AIR BAG MANUAL CUT-OFF DEVICE (S4.5.4)

Test Vehicle: 2006 Toyota Corolla 4 Door
 Test Program: FMVSS 208 Compliance
 Test Technician: Nick Kosinski

NHTSA No.: C65102
 Test Date: 10/12/05

- | | | |
|-------------------------------------|-----|--|
| <input checked="" type="checkbox"/> | 1. | Is the vehicle equipped with an on-off switch that deactivates the air bag installed at the right front outboard seating position? |
| | | <input type="checkbox"/> Yes, go to 2 |
| | | <input checked="" type="checkbox"/> No, this sheet is complete |
| <input type="checkbox"/> | 2. | Does the vehicle have any forward-facing rear designated seating positions? (S4.5.4(a)) |
| | | <input type="checkbox"/> Yes, go to 3 |
| | | <input type="checkbox"/> No, go to 4 |
| <input type="checkbox"/> | 3. | Verification of the lack of room for a child restraint in the rear seat behind the driver's seat. (S4.5.4(b)) |
| <input type="checkbox"/> | 3.1 | Position the seat's adjustable lumbar supports to that the lumbar support is in its lowest, retracted or deflated adjustment position (S8.1.3) |
| | | <input type="checkbox"/> N/A, no lumbar adjustment |
| <input type="checkbox"/> | 3.2 | Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S16.2.10.02) |
| | | <input type="checkbox"/> N/A, no additional support adjustment |
| <input type="checkbox"/> | 3.3 | If the seat cushion adjusts fore and aft, independent of the seat back, set this adjustment to the full rearward position. (S16.2.10.3.1) |
| | | <input type="checkbox"/> N/A, no independent fore-aft seat cushion adjustment |
| <input type="checkbox"/> | 3.4 | If the seat cushion height adjusts independent of the seat back, set this adjustment to the full down position (S16.2.10.3.1) |
| | | <input type="checkbox"/> N/A, no independent seat cushion height adjustment |
| <input type="checkbox"/> | 3.5 | Put the seat in its full rearward position. (S16.2.10.3.1) |
| | | <input type="checkbox"/> N/A, the seat does not have a fore-aft adjustment |
| <input type="checkbox"/> | 3.6 | If the seat height is adjustable, put it in the full down position. (S16.2.10.3.1) |
| | | <input type="checkbox"/> N/A, no seat height adjustment |
| <input type="checkbox"/> | 3.7 | Draw a horizontal reference line on the side of the seat cushion. |
| <input type="checkbox"/> | 3.8 | Using only the controls that change the seat in the fore-aft direction, mark the fore-aft seat positions. Mark the side of the seat and a reference position directly below on a part of the vehicle that does not adjust. For manual seats, move the seat forward one detent at a time and mark each detent as was done for the full rearward position. For power seats, mark only the full rearward, middle, and full forward positions. Label three of the positions with the following: F for full forward, M for mid-position (if there is no mid position, label the closest adjustment position to the rear of the mid-point), and R for full rearward. |
| | | <input type="checkbox"/> N/A – the seat does not have a fore-aft adjustment. |
| <input type="checkbox"/> | 3.9 | Using only the controls that change the seat in the fore-aft direction, place the seat in the full rearward position and then place the seat in the middle fore-aft position. (S8.1.2) |
| | | <input type="checkbox"/> N/A – the seat does not have fore-aft adjustment. |
| | | <input type="checkbox"/> Mid position |

		If there is no mid position, put the seat in the closest adjustment position to the rear of the midpoint. Describe the location of the seat:
	3.10	If seat adjustments, other than fore-aft, are present and the horizontal reference line is no longer horizontal, use those adjustments to maintain the reference line as closely as possible to the horizontal.
		N/A – No adjustments
		Angle of reference line as tested:
	3.11	The seat back angle, if adjustable, is set at the manufacturer's nominal design riding position for a 50th percentile adult male in the manner specified by the manufacturer. (S4.5.4.1 (b) and S8.1.3)
		N/A – No seat back angle adjustment
		Manufacturers design seat back angle:
		Tested seat back angle:
	3.12	Is the driver seat a bucket seat?
		Yes, go to 3.12.1 and skip 3.12.2
		No, go to 3.12.2 and skip 3.12.1
	3.12.1	Bucket Seats:
	3.12.1.1	Locate and mark a vertical Plane B through the longitudinal centerline of the seat driver's seat cushion. (S22.2.1.3) The longitudinal centerline of a bucket seat cushion is determined at the widest part of the seat cushion. Measure perpendicular to the longitudinal centerline of the vehicle.
		Record the width of the seat:
		Record the distance from the edge of the seat to Plane B:
	3.12.1.2	Locate the longitudinal horizontal line in plane B that is tangent to the highest point of the rear seat cushion behind the driver's seat. Measure along this line from the front of the seat back of the rear seat to the rear of the seat back of the driver's seat.
		Distance (mm):
		Less than 720 mm – Pass
		More then 720 mm – Fail
		Go to 4
	3.12.2	Bench seats (including split bench seats):
	3.12.2.1	Locate and mark a vertical Plane B through the center of the steering wheel parallel to the vehicle longitudinal centerline.
	3.12.2.2	Locate the longitudinal horizontal line in plane B that is tangent to the highest point of the rear seat cushion. Measure along this line from the front of the seat back of the rear seat to the rear of the seat back of the front seat.
		Distance (mm):
		Less than 720 mm – Pass
		More then 720 mm – Fail

<input type="checkbox"/>		Go to 4
<input type="checkbox"/>	4.	Does the device turn the air bag on and off using the vehicle's ignition key? (S4.5.4.2)
		<input type="checkbox"/> Yes – Pass
		<input type="checkbox"/> No – Fail
<input type="checkbox"/>	5.	Is the on-off device separate from the ignition switch? (S4.5.4.2)
		<input type="checkbox"/> Yes – Pass
		<input type="checkbox"/> No – Fail
<input type="checkbox"/>	6.	Is there a telltale light that comes on when the passenger air bag is turned off? (S4.5.4.2)
		<input type="checkbox"/> Yes – Pass
		<input type="checkbox"/> No – Fail
<input type="checkbox"/>	7.	Telltale light (S4.5.4.3)
<input type="checkbox"/>	7.1	Is the light yellow? S4.5.4.3(a))
		<input type="checkbox"/> Yes – Pass
		<input type="checkbox"/> No – Fail
<input type="checkbox"/>	7.2	Are the words "PASSENGER AIR BAG OFF" (S4.5.4.3(b))
<input type="checkbox"/>	7.2.1	on the telltale?
		<input type="checkbox"/> Yes – Pass, go to 7.3
		<input type="checkbox"/> No – go to 7.2.2
<input type="checkbox"/>	7.2.2	within 25 mm of the telltale?
<input type="checkbox"/>		Measurement from the edge of the telltale light (mm):
		<input type="checkbox"/> Yes – Pass
		<input type="checkbox"/> No – Fail
<input type="checkbox"/>	7.3	Does the telltale remain illuminated while the air bag is turned off? (S4.5.4.3c)) (Leave the air bag off for 5 minutes.)
		<input type="checkbox"/> Yes – Pass
		<input type="checkbox"/> No – Fail
<input type="checkbox"/>	7.4	Is the telltale illuminated while the air bag is turned on? (S4.5.4.3(d))
		<input type="checkbox"/> Yes – Fail
		<input type="checkbox"/> No – Pass
<input type="checkbox"/>	7.5	Is the telltale combined with the air bag readiness indicator? (S4.5.4.3(e))
		<input type="checkbox"/> Yes – Fail
		<input type="checkbox"/> No – Pass
<input type="checkbox"/>	8.	Owner's Manual
<input type="checkbox"/>	8.1	Does the owner's manual contain complete instructions on the operation of the on-off switch? (S4.5.4.4(a))
		<input type="checkbox"/> Yes – Pass
		<input type="checkbox"/> No – Fail

DATA SHEET 8

LAP BELT LOCKABILITY

**Passenger cars, trucks, buses, and multipurpose passenger
Vehicles with a GVWR of 10,000 pounds or less. (S7.1.1.5)**

Test Vehicle: 2006 Toyota Corolla 4 Door
Test Program: FMVSS 208 Compliance
Test Technician: Nick Kosinski

NHTSA No.: C65102
Test Date: 10/12/05

Complete one of these forms for **each** designated seating position that can be adjusted to forward-facing or that is a forward-facing seat, other than the driver's seat (S7.1.1.5(a), **and** that has seat belt retractors that are not solely automatic locking retractors. (S7.1.1.5(c))

DESIGNATED SEATING POSITION:	Front Passenger
------------------------------	-----------------

<input type="checkbox"/>		N/A – no retractor is at this position	
<input type="checkbox"/>		N/A – the retractor is an automatic locking retractor ONLY	
<input checked="" type="checkbox"/>	1.	Record test fore-aft seat position: Full Aft (S7.1.1.5(c)(1)) (Any position is acceptable)	
<input checked="" type="checkbox"/>	2.	Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does NOT have to be attached by the vehicle user to the seat belt webbing, retractor, or any other part of the vehicle. (S7.1.1.5 (a))	
		<input checked="" type="checkbox"/> Yes – Pass	
		<input type="checkbox"/> No – Fail	
<input checked="" type="checkbox"/>	3.	Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does NOT require inverting, twisting or deforming of the belt webbing. (S7.1.1.5 (a))	
		<input checked="" type="checkbox"/> Yes – Pass	
		<input type="checkbox"/> No – Fail	
<input checked="" type="checkbox"/>	4.	Buckle the seat belt. (S7.1.1.5(c)(1))	
<input checked="" type="checkbox"/>	5.	Locate a reference point A on the seat belt buckle. (S7.1.1.5(c)(2))	
<input checked="" type="checkbox"/>	6.	Locate a reference point B on the attachment hardware or retractor assembly at the other end of the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2))	
<input checked="" type="checkbox"/>	7.	Does the vehicle user need to take some action to activate the locking feature on the lap belt portion of the seat belt in any forward-facing seat or seat that can be adjusted to forward-facing?	
		<input checked="" type="checkbox"/> Yes, go to 7.1	
		<input type="checkbox"/> No, go to 8	
<input checked="" type="checkbox"/>	7.1	Does the vehicle owner's manual include a description in words and/or diagrams describing how to activate the locking feature so that the seat belt assembly can tightly secure a child restraint system and how to deactivate the locking feature to remove the child restraint system. (S7.1.1.5(b))	
		<input checked="" type="checkbox"/> Yes – Pass	
		<input type="checkbox"/> No – Fail	
<input checked="" type="checkbox"/>	8.	Adjust the lap belt or lap belt portion of the seat belt assembly according to any procedures recommended in the vehicle owner's manual to activate any locking feature so that the webbing between points A and B is at the maximum length allowed by the belt system. (S7.1.1.5(c)(2) & S7.1.1.5(c)(1))	

- ☒ 9. Measure and record the distance between points A and B along the longitudinal centerline of the webbing for the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2))
- ☒ Measured distance between A and B (inches): 75 inches
- ☒ 10. Readjust the belt system so that the webbing between points A and B is at any length that is 5 inches or more shorter than the maximum length of the webbing. (S7.1.1.5(c)(3))
- ☒ 11. To the lap belt or lap belt portion of the seat belt assembly, apply a preload of 10 pounds using the webbing tension pull device in Figure 5. Apply the load in a vertical plane parallel to the longitudinal axis of the vehicle and passing through the seating reference point of the designated seating position. Apply the preload in a horizontal direction toward the front of the vehicle with a force application angle of not less than 5 degrees nor more than 15 degrees above the horizontal. (S7.1.1.5(c)(4))
- ☒ Measured force application angle (Spec. 5-15 degrees): 10 degrees
- ☒ 12. Measure the length between points A and B along the longitudinal centerline of the webbing while the preload is being applied. (S7.1.1.5(c)(4))
- ☒ Measured distance between A and B (inches): 34.125 inches
- ☒ 13. Increase the load to 50 pounds at a rate of no more than 50 pounds per second. Attain the load in not more than 5 seconds. (If webbing sensitive emergency locking retractors are installed as part of the lap belt or lap belt portion of the seat belt assembly, apply the load at a rate less than the threshold value for lock-up specified by the manufacturer.) Maintain the load for at least 5 seconds. Measure and record the distance between points A and B along the longitudinal centerline of the webbing. (S7.1.1.5(c)(5))
- ☒ Record onset rate (lb/sec) (spec. 10 to 50 lb/sec) (S7.1.1.5(c)(5)): 25 lb/sec
- ☒ Measured distance between A and B (inches) (S7.1.1.5(c)(6)): 34.625 inches
- ☒ 14. Subtract the measurement in 12 from the measurement in 13. Is the difference 2 inches or less? (S7.1.1.5(c)(7))
- ☒ $13 - 12 = 34.625 \text{ inches} - 34.125 \text{ inches} = 0.5 \text{ inches}$
- ☒ Yes – Pass
- ☐ No – Fail
- ☒ 15. Subtract the measurement in 9 from the measurement in 13. Is the difference 3 inches or more? (S7.1.1.5(c)(8))
- ☒ $9 - 13 = 40.375 \text{ inches}$
- ☒ Yes – Pass
- ☐ No – Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: _____

Thick Kosinski

Date: 10/12/05

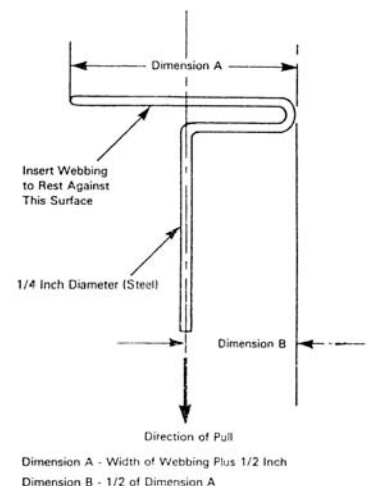


Figure 5. - Webbing Tension Pull Device

DATA SHEET 8

LAP BELT LOCKABILITY

**Passenger cars, trucks, buses, and multipurpose passenger
Vehicles with a GVWR of 10,000 pounds or less. (S7.1.1.5)**

Test Vehicle: 2006 Toyota Corolla 4 Door
Test Program: FMVSS 208 Compliance
Test Technician: Nick Kosinski

NHTSA No.: C65102
Test Date: 10/12/05

Complete one of these forms for **each** designated seating position that can be adjusted to forward-facing or that is a forward-facing seat, other than the driver's seat (S7.1.1.5(a), **and** that has seat belt retractors that are not solely automatic locking retractors. (S7.1.1.5(c))

DESIGNATED SEATING POSITION:	Left Rear Passenger
------------------------------	---------------------

<input type="checkbox"/>		N/A – no retractor is at this position	
<input type="checkbox"/>		N/A – the retractor is an automatic locking retractor ONLY	
<input checked="" type="checkbox"/>	1.	Record test fore-aft seat position: Not Adjustable (S7.1.1.5(c)(1)) (Any position is acceptable)	
<input checked="" type="checkbox"/>	2.	Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does NOT have to be attached by the vehicle user to the seat belt webbing, retractor, or any other part of the vehicle. (S7.1.1.5 (a))	
		<input checked="" type="checkbox"/> Yes – Pass	
		<input type="checkbox"/> No – Fail	
<input checked="" type="checkbox"/>	3.	Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does NOT require inverting, twisting or deforming of the belt webbing. (S7.1.1.5 (a))	
		<input checked="" type="checkbox"/> Yes – Pass	
		<input type="checkbox"/> No – Fail	
<input checked="" type="checkbox"/>	4.	Buckle the seat belt. (S7.1.1.5(c)(1))	
<input checked="" type="checkbox"/>	5.	Locate a reference point A on the seat belt buckle. (S7.1.1.5(c)(2))	
<input checked="" type="checkbox"/>	6.	Locate a reference point B on the attachment hardware or retractor assembly at the other end of the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2))	
<input checked="" type="checkbox"/>	7.	Does the vehicle user need to take some action to activate the locking feature on the lap belt portion of the seat belt in any forward-facing seat or seat that can be adjusted to forward-facing?	
		<input checked="" type="checkbox"/> Yes, go to 7.1	
		<input type="checkbox"/> No, go to 8	
<input checked="" type="checkbox"/>	7.1	Does the vehicle owner's manual include a description in words and/or diagrams describing how to activate the locking feature so that the seat belt assembly can tightly secure a child restraint system and how to deactivate the locking feature to remove the child restraint system. (S7.1.1.5(b))	
		<input checked="" type="checkbox"/> Yes – Pass	
		<input type="checkbox"/> No – Fail	
<input checked="" type="checkbox"/>	8.	Adjust the lap belt or lap belt portion of the seat belt assembly according to any procedures recommended in the vehicle owner's manual to activate any locking feature so that the webbing between points A and B is at the maximum length allowed by the belt system. (S7.1.1.5(c)(2) & S7.1.1.5(c)(1))	

- ☒ 9. Measure and record the distance between points A and B along the longitudinal centerline of the webbing for the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2))
- ☒ Measured distance between A and B (inches): 65.5 inches
- ☒ 10. Readjust the belt system so that the webbing between points A and B is at any length that is 5 inches or more shorter than the maximum length of the webbing. (S7.1.1.5(c)(3))
- ☒ 11. To the lap belt or lap belt portion of the seat belt assembly, apply a preload of 10 pounds using the webbing tension pull device in Figure 5. Apply the load in a vertical plane parallel to the longitudinal axis of the vehicle and passing through the seating reference point of the designated seating position. Apply the preload in a horizontal direction toward the front of the vehicle with a force application angle of not less than 5 degrees nor more than 15 degrees above the horizontal. (S7.1.1.5(c)(4))
- ☒ Measured force application angle (Spec. 5-15 degrees): 10 degrees
- ☒ 12. Measure the length between points A and B along the longitudinal centerline of the webbing while the preload is being applied. (S7.1.1.5(c)(4))
- ☒ Measured distance between A and B (inches): 18.5 inches
- ☒ 13. Increase the load to 50 pounds at a rate of no more than 50 pounds per second. Attain the load in not more than 5 seconds. (If webbing sensitive emergency locking retractors are installed as part of the lap belt or lap belt portion of the seat belt assembly, apply the load at a rate less than the threshold value for lock-up specified by the manufacturer.) Maintain the load for at least 5 seconds. Measure and record the distance between points A and B along the longitudinal centerline of the webbing. (S7.1.1.5(c)(5))
- ☒ Record onset rate (lb/sec) (spec. 10 to 50 lb/sec) (S7.1.1.5(c)(5)): 25 lb/sec
- ☒ Measured distance between A and B (inches) (S7.1.1.5(c)(6)): 20.25 inches
- ☒ 14. Subtract the measurement in 12 from the measurement in 13. Is the difference 2 inches or less? (S7.1.1.5(c)(7))
- ☒ $13 - 12 = 20.25 \text{ inches} - 18.5 \text{ inches} = 1.75 \text{ inches}$
- ☒ Yes – Pass
- ☐ No – Fail
- ☒ 15. Subtract the measurement in 9 from the measurement in 13. Is the difference 3 inches or more? (S7.1.1.5(c)(8))
- ☒ $9 - 13 = 45.25 \text{ inches}$
- ☒ Yes – Pass
- ☐ No – Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: *Rich Kosinski*

Date: 10/12/05

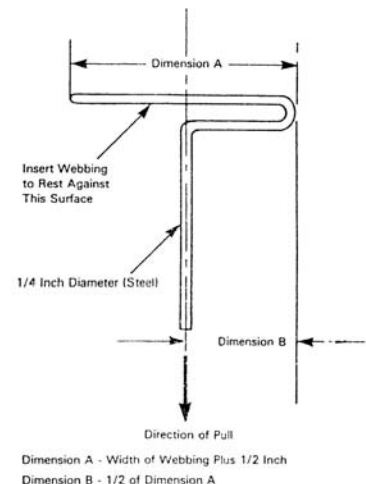


Figure 5. - Webbing Tension Pull Device

DATA SHEET 8

LAP BELT LOCKABILITY

**Passenger cars, trucks, buses, and multipurpose passenger
Vehicles with a GVWR of 10,000 pounds or less. (S7.1.1.5)**

Test Vehicle: 2006 Toyota Corolla 4 Door
Test Program: FMVSS 208 Compliance
Test Technician: Nick Kosinski

NHTSA No.: C65102
Test Date: 10/12/05

Complete one of these forms for **each** designated seating position that can be adjusted to forward-facing or that is a forward-facing seat, other than the driver's seat (S7.1.1.5(a), **and** that has seat belt retractors that are not solely automatic locking retractors. (S7.1.1.5(c))

DESIGNATED SEATING POSITION:	Center Rear Passenger
------------------------------	-----------------------

<input type="checkbox"/>	N/A – no retractor is at this position
<input type="checkbox"/>	N/A – the retractor is an automatic locking retractor ONLY
<input checked="" type="checkbox"/>	1. Record test fore-aft seat position: Not Adjustable (S7.1.1.5(c)(1)) (Any position is acceptable)
<input checked="" type="checkbox"/>	2. Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does NOT have to be attached by the vehicle user to the seat belt webbing, retractor, or any other part of the vehicle. (S7.1.1.5 (a))
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Yes – Pass
	<input type="checkbox"/> No – Fail
<input checked="" type="checkbox"/>	3. Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does NOT require inverting, twisting or deforming of the belt webbing. (S7.1.1.5 (a))
	<input checked="" type="checkbox"/> Yes – Pass
	<input type="checkbox"/> No – Fail
<input checked="" type="checkbox"/>	4. Buckle the seat belt. (S7.1.1.5(c)(1))
<input checked="" type="checkbox"/>	5. Locate a reference point A on the seat belt buckle. (S7.1.1.5(c)(2))
<input checked="" type="checkbox"/>	6. Locate a reference point B on the attachment hardware or retractor assembly at the other end of the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2))
<input checked="" type="checkbox"/>	7. Does the vehicle user need to take some action to activate the locking feature on the lap belt portion of the seat belt in any forward-facing seat or seat that can be adjusted to forward-facing?
	<input checked="" type="checkbox"/> Yes, go to 7.1
	<input type="checkbox"/> No, go to 8
<input checked="" type="checkbox"/>	7.1 Does the vehicle owner's manual include a description in words and/or diagrams describing how to activate the locking feature so that the seat belt assembly can tightly secure a child restraint system and how to deactivate the locking feature to remove the child restraint system. (S7.1.1.5(b))
	<input checked="" type="checkbox"/> Yes – Pass
	<input type="checkbox"/> No – Fail
<input checked="" type="checkbox"/>	8. Adjust the lap belt or lap belt portion of the seat belt assembly according to any procedures recommended in the vehicle owner's manual to activate any locking feature so that the webbing between points A and B is at the maximum length allowed by the belt system. (S7.1.1.5(c)(2) & S7.1.1.5(c)(1))

- ☒ 9. Measure and record the distance between points A and B along the longitudinal centerline of the webbing for the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2))
- ☒ Measured distance between A and B (inches): 64.5 inches
- ☒ 10. Readjust the belt system so that the webbing between points A and B is at any length that is 5 inches or more shorter than the maximum length of the webbing. (S7.1.1.5(c)(3))
- ☒ 11. To the lap belt or lap belt portion of the seat belt assembly, apply a preload of 10 pounds using the webbing tension pull device in Figure 5. Apply the load in a vertical plane parallel to the longitudinal axis of the vehicle and passing through the seating reference point of the designated seating position. Apply the preload in a horizontal direction toward the front of the vehicle with a force application angle of not less than 5 degrees nor more than 15 degrees above the horizontal. (S7.1.1.5(c)(4))
- ☒ Measured force application angle (Spec. 5-15 degrees): 10 degrees
- ☒ 12. Measure the length between points A and B along the longitudinal centerline of the webbing while the preload is being applied. (S7.1.1.5(c)(4))
- ☒ Measured distance between A and B (inches): 18.75 inches
- ☒ 13. Increase the load to 50 pounds at a rate of no more than 50 pounds per second. Attain the load in not more than 5 seconds. (If webbing sensitive emergency locking retractors are installed as part of the lap belt or lap belt portion of the seat belt assembly, apply the load at a rate less than the threshold value for lock-up specified by the manufacturer.) Maintain the load for at least 5 seconds. Measure and record the distance between points A and B along the longitudinal centerline of the webbing. (S7.1.1.5(c)(5))
- ☒ Record onset rate (lb/sec) (spec. 10 to 50 lb/sec) (S7.1.1.5(c)(5)): 25 lb/sec
- ☒ Measured distance between A and B (inches) (S7.1.1.5(c)(6)): 20.5 inches
- ☒ 14. Subtract the measurement in 12 from the measurement in 13. Is the difference 2 inches or less? (S7.1.1.5(c)(7))
- ☒ $13 - 12 = 20.5 \text{ inches} - 18.75 \text{ inches} = 1.75 \text{ inch}$
- ☒ Yes – Pass
- ☐ No – Fail
- ☒ 15. Subtract the measurement in 9 from the measurement in 13. Is the difference 3 inches or more? (S7.1.1.5(c)(8))
- ☒ $9 - 13 = 44 \text{ inches}$
- ☒ Yes – Pass
- ☐ No – Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: _____

Nick Kosinski

Date: 10/12/05

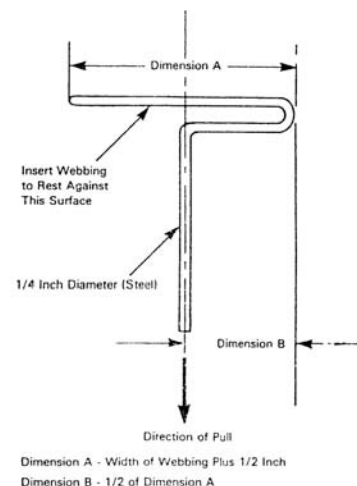


Figure 5. - Webbing Tension Pull Device

DATA SHEET 8

LAP BELT LOCKABILITY

**Passenger cars, trucks, buses, and multipurpose passenger
Vehicles with a GVWR of 10,000 pounds or less. (S7.1.1.5)**

Test Vehicle: 2006 Toyota Corolla 4 Door
Test Program: FMVSS 208 Compliance
Test Technician: Nick Kosinski

NHTSA No.: C65102
Test Date: 10/12/05

Complete one of these forms for **each** designated seating position that can be adjusted to forward-facing or that is a forward-facing seat, other than the driver's seat (S7.1.1.5(a), **and** that has seat belt retractors that are not solely automatic locking retractors. (S7.1.1.5(c))

DESIGNATED SEATING POSITION:	Right Rear Passenger
------------------------------	----------------------

<input type="checkbox"/>		N/A – no retractor is at this position	
<input type="checkbox"/>		N/A – the retractor is an automatic locking retractor ONLY	
<input checked="" type="checkbox"/>	1.	Record test fore-aft seat position: Not Adjustable (S7.1.1.5(c)(1)) (Any position is acceptable)	
<input checked="" type="checkbox"/>	2.	Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does NOT have to be attached by the vehicle user to the seat belt webbing, retractor, or any other part of the vehicle. (S7.1.1.5 (a))	
		<input checked="" type="checkbox"/> Yes – Pass	
		<input type="checkbox"/> No – Fail	
<input checked="" type="checkbox"/>	3.	Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does NOT require inverting, twisting or deforming of the belt webbing. (S7.1.1.5 (a))	
		<input checked="" type="checkbox"/> Yes – Pass	
		<input type="checkbox"/> No – Fail	
<input checked="" type="checkbox"/>	4.	Buckle the seat belt. (S7.1.1.5(c)(1))	
<input checked="" type="checkbox"/>	5.	Locate a reference point A on the seat belt buckle. (S7.1.1.5(c)(2))	
<input checked="" type="checkbox"/>	6.	Locate a reference point B on the attachment hardware or retractor assembly at the other end of the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2))	
<input checked="" type="checkbox"/>	7.	Does the vehicle user need to take some action to activate the locking feature on the lap belt portion of the seat belt in any forward-facing seat or seat that can be adjusted to forward-facing?	
		<input checked="" type="checkbox"/> Yes, go to 7.1	
		<input type="checkbox"/> No, go to 8	
<input checked="" type="checkbox"/>	7.1	Does the vehicle owner's manual include a description in words and/or diagrams describing how to activate the locking feature so that the seat belt assembly can tightly secure a child restraint system and how to deactivate the locking feature to remove the child restraint system. (S7.1.1.5(b))	
		<input checked="" type="checkbox"/> Yes – Pass	
		<input type="checkbox"/> No – Fail	
<input checked="" type="checkbox"/>	8.	Adjust the lap belt or lap belt portion of the seat belt assembly according to any procedures recommended in the vehicle owner's manual to activate any locking feature so that the webbing between points A and B is at the maximum length allowed by the belt system. (S7.1.1.5(c)(2) & S7.1.1.5(c)(1))	

- ☒ 9. Measure and record the distance between points A and B along the longitudinal centerline of the webbing for the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2))
- ☒ Measured distance between A and B (inches): 64.5 inches
- ☒ 10. Readjust the belt system so that the webbing between points A and B is at any length that is 5 inches or more shorter than the maximum length of the webbing. (S7.1.1.5(c)(3))
- ☒ 11. To the lap belt or lap belt portion of the seat belt assembly, apply a preload of 10 pounds using the webbing tension pull device in Figure 5. Apply the load in a vertical plane parallel to the longitudinal axis of the vehicle and passing through the seating reference point of the designated seating position. Apply the preload in a horizontal direction toward the front of the vehicle with a force application angle of not less than 5 degrees nor more than 15 degrees above the horizontal. (S7.1.1.5(c)(4))
- ☒ Measured force application angle (Spec. 5-15 degrees): 10 degrees
- ☒ 12. Measure the length between points A and B along the longitudinal centerline of the webbing while the preload is being applied. (S7.1.1.5(c)(4))
- ☒ Measured distance between A and B (inches): 19.25 inches
- ☒ 13. Increase the load to 50 pounds at a rate of no more than 50 pounds per second. Attain the load in not more than 5 seconds. (If webbing sensitive emergency locking retractors are installed as part of the lap belt or lap belt portion of the seat belt assembly, apply the load at a rate less than the threshold value for lock-up specified by the manufacturer.) Maintain the load for at least 5 seconds. Measure and record the distance between points A and B along the longitudinal centerline of the webbing. (S7.1.1.5(c)(5))
- ☒ Record onset rate (lb/sec) (spec. 10 to 50 lb/sec) (S7.1.1.5(c)(5)): 10 lb/sec
- ☒ Measured distance between A and B (inches) (S7.1.1.5(c)(6)): 20.5 inches
- ☒ 14. Subtract the measurement in 12 from the measurement in 13. Is the difference 2 inches or less? (S7.1.1.5(c)(7))
- ☒ $13 - 12 = 20.5 \text{ inches} - 19.25 \text{ inches} = 1.25 \text{ inches}$
- ☒ Yes – Pass
- ☐ No – Fail
- ☒ 15. Subtract the measurement in 9 from the measurement in 13. Is the difference 3 inches or more? (S7.1.1.5(c)(8))
- ☒ $9 - 13 = 44 \text{ inches}$
- ☒ Yes – Pass
- ☐ No – Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: *Rich Kosinski*

Date: 10/12/05

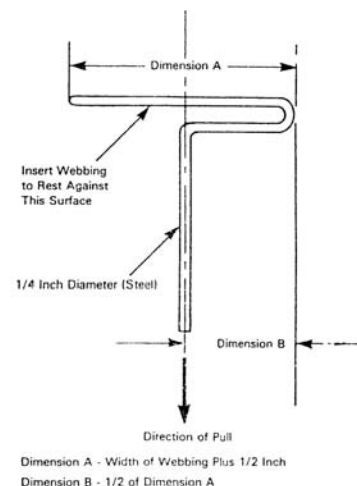


Figure 5. - Webbing Tension Pull Device

DATA SHEET 9

FMVSS 208 SEAT BELT WARNING SYSTEM CHECK (S7.3)

Test Vehicle: 2006 Toyota Corolla 4 Door
 Test Program: FMVSS 208 Compliance
 Test Technician: Nick Kosinski

NHTSA No.: C65102
 Test Date: 10/12/05

- | | | |
|----------|-----|---|
| X | 1. | The occupant is in the driver's seat. |
| X | 2. | The seat belt is in the stowed position. |
| X | 3. | The key is in the "on" or "start" position. |
| X | 4. | The time duration of the audible signal beginning with key "on" or "start" is |
| X | | Seconds: 6.0 |
| X | 5. | The occupant is in the driver's seat. |
| X | 6. | The seat belt is in the stowed position. |
| X | 7. | The key is in the "on" or "start" position. |
| X | 8. | The time duration of the warning light beginning with key "on" or "start" is |
| X | | Seconds: Stays On |
| X | 9. | The occupant is in the driver's seat. |
| X | 10. | The seat belt is in the latched position and with at least 4 inches of belt webbing extended. |
| X | 11. | The key is in the "on" or "start" position. |
| X | 12. | The time duration of the audible signal beginning with key "on" or "start" is |
| X | | Seconds: 0.0 |
| X | 13. | The occupant is in the driver's seat. |
| X | 14. | The seat belt is in the latched position and with at least 4 inches of belt webbing extended. |
| X | 15. | The key is in the "on" or "start" position. |
| X | 16. | The time duration of the warning light beginning with key "on" or "start" is |
| X | | Seconds: 0.0 |
| X | 17. | Complete the following table with the data from 4, 8, 12, and 16 to determine which option is used. |

		Warning light	Warning light specification	Audible signal	Audible signal specification*
S7.3 (a)(1)	Belt latched & key on or start	Item 16: 0.0		Item 12: 0.0	0 seconds**
	Belt stowed & key on or start	Item 8: Stays On	60 seconds minimum	Item 4: 6.0	4 to 8 seconds
S7.3 (a)(2)	Belt latched & key on or start	Item 16: 0.0	4 to 8 seconds	Item 12: 0.0	0 seconds**
	Belt stowed & key on or start	Item 8: Stays On	4 to 8 seconds	Item 4: 6.0	4 to 8 seconds

* 49 USCS @ 30124 does NOT allow an audible signal to operate for more than 8 seconds.

** 0 seconds means the light or audible signal are NOT permitted to operate under these conditions.
 See 7/12/00 interpretation to Patrick Raheer of Hogan and Hartson

- ☒ 18. The seat belt warning system meets the requirements of (manufacturers may comply with either section)
- | | |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> | S7.3 (a)(1) |
| <input type="checkbox"/> | S7.3 (a)(2) |
| <input type="checkbox"/> | FAIL – does not meet the requirements of either option |
- ☒ 19. Note wording of visual warning: (S7.3(a)(1) and S7.3(a)(2))
- | | |
|-------------------------------------|---|
| <input type="checkbox"/> | Fasten seat belts |
| <input type="checkbox"/> | Fasten belts |
| <input checked="" type="checkbox"/> | Symbol 101 |
| <input type="checkbox"/> | FAIL – does not used any of the above working or symbol |

REMARKS:

I certify that I have read and performed each instruction.

Signature: *Thick Kosinski*

Date: 10/12/05

DATA SHEET 10

BELT CONTACT FORCE (S7.4.3)

Test Vehicle: 2006 Toyota Corolla 4 Door
 Test Program: FMVSS 208 Compliance
 Test Technician: Nick Kosinski

NHTSA No.: C65102
 Test Date: 10/12/05

Test all Type 2 seat belts other than those in walk-in van-type vehicles and those at front outboard designated seating positions in passenger cars. Complete a form for each applicable seat belt.

DESIGNATED SEATING POSITION:	Left Rear Passenger
------------------------------	---------------------

- | | | |
|----------|----|--|
| X | 1. | Does the vehicle incorporate a webbing tension-relieving device? |
| | | <input type="checkbox"/> Yes, this form is complete |
| | | X No, continue with this check sheet |
| X | 2. | Position the seat's adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S8.1.3) |
| | | X N/A, no lumbar adjustment |
| X | 3. | Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S16.2.10.2) |
| | | X N/A, no additional support adjustment |
| X | 4. | If the seat cushion adjusts fore and aft, independent of the seat back, set this adjustment to the full rearward position. (S16.2.10.3.1) |
| | | X N/A, no independent fore-aft seat cushion adjustment |
| X | 5. | If the seat cushion height adjusts independent of the seat back, set this adjustment to the full down position. (S16.2.10.3.1) |
| | | X N/A, no independent seat cushion height adjustment |
| X | 6. | Put the seat in its full rearward position. (S16.2.10.3.1) |
| | | X N/A, the seat does not have a fore-aft adjustment |
| X | 7. | If the seat cushion height is adjustable, set this adjustment to the full down position. (S16.2.10.3.1) |
| | | X N/A, no seat height adjustment |
| X | 8. | Draw a horizontal reference line on the side of the seat cushion. |
| X | 9. | Using only the controls that change the seat in the fore-aft direction, mark the fore-aft seat positions. Mark the side of the seat and a reference position directly below on a part of the vehicle that does not adjust. For manual seats, move the seat forward one detent at a time and mark each detent as was done for the full rearward position. For power seats, mark only the full rearward, middle, and full forward positions. Label three of the positions with the following: F for full forward, M for mid-position (if there is no mid position, label the closest adjustment position to the rear of the mid-point), and R for full rearward. |
| | | X N/A, the seat does not have a fore-aft adjustment |

- ☒ 10. Using only the controls that change the seat in the fore-aft direction, place the seat in the full rearward position and then place the seat in the middle fore-aft position for this test. (S8.1.2)
☐ Mid position
 If there is no mid position, put the seat in the closest adjustment position to the rear of the midpoint. Describe the location of the seat: Not adjustable
- ☒ 11. If seat adjustments other than fore-aft are present and the horizontal reference line is no longer horizontal, use those adjustments to maintain the reference line as closely as possible to the horizontal. (S16.2.10.3.2.1)
☒ N/A, no adjustments
 Reference line angle as tested: N/A
- ☒ 12. The seat back angle, if adjustable, is set at the manufacturer's nominal design riding position for a 50th percentile adult male in the manner specified by the manufacturer. (S4.5.4.1 (b) and S8.1.3)
☒ N/A, no seat back angle adjustment
☒ Manufacturer's design seat back angle: N/A
☒ Tested seat back angle: Fixed Angle
- ☒ 13. Position the test dummies according to dummy position placement instructions in Appendix F.
- ☒ 14. Fasten the seat belt latch.
- ☒ 15. Pull either 12 inches of belt webbing or the maximum available amount of belt webbing, whichever is less, from the retractor and then release it, allowing the belt webbing to return to the dummy's chest.
- ☒ 16. Locate the point where the centerline of the upper torso belt webbing crosses the midsagittal line on the dummy's chest. At that point pull the belt webbing out 3 inches from the dummy's chest and release until it is within one inch from the dummy's chest. (S10.8) Using a force measuring gage with a full scale range of no more than 1.5 pounds, measure the contact force perpendicular to the dummy's chest exerted by the belt webbing.
☒ Contact Force (lb): 0.52 lbs
☒ 0.0 to 0.7 pounds – Pass
☐ Greater than 0.7 pounds – Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: _____

Thick Kosinski

Date: 10/12/05

DATA SHEET 10

BELT CONTACT FORCE (S7.4.3)

Test Vehicle: 2006 Toyota Corolla 4 Door
 Test Program: FMVSS 208 Compliance
 Test Technician: Nick Kosinski

NHTSA No.: C65102
 Test Date: 10/12/05

Test all Type 2 seat belts other than those in walk-in van-type vehicles and those at front outboard designated seating positions in passenger cars. Complete a form for each applicable seat belt.

DESIGNATED SEATING POSITION:	Center Rear Passenger
------------------------------	-----------------------

- | | |
|----------|---|
| X | 1. Does the vehicle incorporate a webbing tension-relieving device? |
| | Yes, this form is complete |
| | X No, continue with this check sheet |
| X | 2. Position the seat's adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S8.1.3) |
| | X N/A, no lumbar adjustment |
| X | 3. Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S16.2.10.2) |
| | X N/A, no additional support adjustment |
| X | 4. If the seat cushion adjusts fore and aft, independent of the seat back, set this adjustment to the full rearward position. (S16.2.10.3.1) |
| | X N/A, no independent fore-aft seat cushion adjustment |
| X | 5. If the seat cushion height adjusts independent of the seat back, set this adjustment to the full down position. (S16.2.10.3.1) |
| | X N/A, no independent seat cushion height adjustment |
| X | 6. Put the seat in its full rearward position. (S16.2.10.3.1) |
| | X N/A, the seat does not have a fore-aft adjustment |
| X | 7. If the seat cushion height is adjustable, set this adjustment to the full down position. (S16.2.10.3.1) |
| | X N/A, no seat height adjustment |
| X | 8. Draw a horizontal reference line on the side of the seat cushion. |
| X | 9. Using only the controls that change the seat in the fore-aft direction, mark the fore-aft seat positions. Mark the side of the seat and a reference position directly below on a part of the vehicle that does not adjust. For manual seats, move the seat forward one detent at a time and mark each detent as was done for the full rearward position. For power seats, mark only the full rearward, middle, and full forward positions. Label three of the positions with the following: F for full forward, M for mid-position (if there is no mid position, label the closest adjustment position to the rear of the mid-point), and R for full rearward. |
| | X N/A, the seat does not have a fore-aft adjustment |

- ☒ 10. Using only the controls that change the seat in the fore-aft direction, place the seat in the full rearward position and then place the seat in the middle fore-aft position for this test. (S8.1.2)
☐ Mid position
 If there is no mid position, put the seat in the closest adjustment position to the rear of the midpoint. Describe the location of the seat: Not adjustable
- ☒ 11. If seat adjustments other than fore-aft are present and the horizontal reference line is no longer horizontal, use those adjustments to maintain the reference line as closely as possible to the horizontal. (S16.2.10.3.2.1)
☒ N/A, no adjustments
 Reference line angle as tested: N/A
- ☒ 12. The seat back angle, if adjustable, is set at the manufacturer's nominal design riding position for a 50th percentile adult male in the manner specified by the manufacturer. (S4.5.4.1 (b) and S8.1.3)
☒ N/A, no seat back angle adjustment
☒ Manufacturer's design seat back angle: N/A
☒ Tested seat back angle: Fixed Angle
- ☒ 13. Position the test dummies according to dummy position placement instructions in Appendix F.
- ☒ 14. Fasten the seat belt latch.
- ☒ 15. Pull either 12 inches of belt webbing or the maximum available amount of belt webbing, whichever is less, from the retractor and then release it, allowing the belt webbing to return to the dummy's chest.
- ☒ 16. Locate the point where the centerline of the upper torso belt webbing crosses the midsagittal line on the dummy's chest. At that point pull the belt webbing out 3 inches from the dummy's chest and release until it is within one inch from the dummy's chest. (S10.8) Using a force measuring gage with a full scale range of no more than 1.5 pounds, measure the contact force perpendicular to the dummy's chest exerted by the belt webbing.
☒ Contact Force (lb): 0.48 lbs
☒ 0.0 to 0.7 pounds – Pass
☐ Greater than 0.7 pounds – Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: 

Date: 10/12/05

DATA SHEET 10 **BELT CONTACT FORCE (S7.4.3)**

Test Vehicle: 2006 Toyota Corolla 4 Door
 Test Program: FMVSS 208 Compliance
 Test Technician: Nick Kosinski

NHTSA No.: C65102
 Test Date: 10/12/05

Test all Type 2 seat belts other than those in walk-in van-type vehicles and those at front outboard designated seating positions in passenger cars. Complete a form for each applicable seat belt.

DESIGNATED SEATING POSITION:	Right Rear Passenger
------------------------------	----------------------

- | | | |
|----------|----|--|
| X | 1. | Does the vehicle incorporate a webbing tension-relieving device? |
| | | <input type="checkbox"/> Yes, this form is complete |
| | | X No, continue with this check sheet |
| X | 2. | Position the seat's adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S8.1.3) |
| | | X N/A, no lumbar adjustment |
| X | 3. | Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S16.2.10.2) |
| | | X N/A, no additional support adjustment |
| X | 4. | If the seat cushion adjusts fore and aft, independent of the seat back, set this adjustment to the full rearward position. (S16.2.10.3.1) |
| | | X N/A, no independent fore-aft seat cushion adjustment |
| X | 5. | If the seat cushion height adjusts independent of the seat back, set this adjustment to the full down position. (S16.2.10.3.1) |
| | | X N/A, no independent seat cushion height adjustment |
| X | 6. | Put the seat in its full rearward position. (S16.2.10.3.1) |
| | | X N/A, the seat does not have a fore-aft adjustment |
| X | 7. | If the seat cushion height is adjustable, set this adjustment to the full down position. (S16.2.10.3.1) |
| | | X N/A, no seat height adjustment |
| X | 8. | Draw a horizontal reference line on the side of the seat cushion. |
| X | 9. | Using only the controls that change the seat in the fore-aft direction, mark the fore-aft seat positions. Mark the side of the seat and a reference position directly below on a part of the vehicle that does not adjust. For manual seats, move the seat forward one detent at a time and mark each detent as was done for the full rearward position. For power seats, mark only the full rearward, middle, and full forward positions. Label three of the positions with the following: F for full forward, M for mid-position (if there is no mid position, label the closest adjustment position to the rear of the mid-point), and R for full rearward. |
| | | X N/A, the seat does not have a fore-aft adjustment |

- ☒ 10. Using only the controls that change the seat in the fore-aft direction, place the seat in the full rearward position and then place the seat in the middle fore-aft position for this test. (S8.1.2)
☐ Mid position
 If there is no mid position, put the seat in the closest adjustment position to the rear of the midpoint. Describe the location of the seat: Not adjustable
- ☒ 11. If seat adjustments other than fore-aft are present and the horizontal reference line is no longer horizontal, use those adjustments to maintain the reference line as closely as possible to the horizontal. (S16.2.10.3.2.1)
☒ N/A, no adjustments
 Reference line angle as tested: N/A
- ☒ 12. The seat back angle, if adjustable, is set at the manufacturer's nominal design riding position for a 50th percentile adult male in the manner specified by the manufacturer. (S4.5.4.1 (b) and S8.1.3)
☒ N/A, no seat back angle adjustment
☒ Manufacturer's design seat back angle: N/A
☒ Tested seat back angle: Fixed Angle
- ☒ 13. Position the test dummies according to dummy position placement instructions in Appendix F.
- ☒ 14. Fasten the seat belt latch.
- ☒ 15. Pull either 12 inches of belt webbing or the maximum available amount of belt webbing, whichever is less, from the retractor and then release it, allowing the belt webbing to return to the dummy's chest.
- ☒ 16. Locate the point where the centerline of the upper torso belt webbing crosses the midsagittal line on the dummy's chest. At that point pull the belt webbing out 3 inches from the dummy's chest and release until it is within one inch from the dummy's chest. (S10.8) Using a force measuring gage with a full scale range of no more than 1.5 pounds, measure the contact force perpendicular to the dummy's chest exerted by the belt webbing.
☒ Contact Force (lb): 0.53 lbs
☒ 0.0 to 0.7 pounds – Pass
☐ Greater than 0.7 pounds – Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: _____

Thick Kosinski

Date: 10/12/05

DATA SHEET 11

LATCH PLATE ACCESS (S7.4.4)

Test Vehicle: 2006 Toyota Corolla 4 Door
 Test Program: FMVSS 208 Compliance
 Test Technician: Nick Kosinski

NHTSA No.: C65102
 Test Date: 10/12/05

Test all front outboard seat belts **other than those in** walk-in van-type vehicles and those at front outboard designated seating positions in **passenger cars**. Complete a form for each applicable seat belt.

DESIGNATED SEATING POSITION:	Not Applicable For Any Position - Passenger Car
------------------------------	---

- | | | |
|--|-----|--|
| <div style="background-color: yellow; width: 20px; height: 15px; margin: 0 auto;"></div> | 1. | Position the seat's adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (8.1.3) |
| | | <div style="background-color: yellow; width: 20px; height: 15px; display: inline-block; vertical-align: middle;"></div> N/A, no lumbar adjustment |
| <div style="background-color: yellow; width: 20px; height: 15px; margin: 0 auto;"></div> | 2. | Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S16.2.10.2) |
| | | <div style="background-color: yellow; width: 20px; height: 15px; display: inline-block; vertical-align: middle;"></div> N/A, no additional support adjustment |
| <div style="background-color: yellow; width: 20px; height: 15px; margin: 0 auto;"></div> | 3. | If the seat cushion adjusts fore and aft, independent of the seat back, set this adjustment to the full rearward position. (S16.2.10.3.1) |
| | | <div style="background-color: yellow; width: 20px; height: 15px; display: inline-block; vertical-align: middle;"></div> N/A, no independent fore-aft seat cushion adjustment |
| <div style="background-color: yellow; width: 20px; height: 15px; margin: 0 auto;"></div> | 4. | If the seat cushion height adjusts independent of the seat back, set this adjustment to the full down position. (S16.2.10.3.1) |
| | | <div style="background-color: yellow; width: 20px; height: 15px; display: inline-block; vertical-align: middle;"></div> N/A, no independent seat cushion height adjustment |
| <div style="background-color: yellow; width: 20px; height: 15px; margin: 0 auto;"></div> | 5. | Put the seat in its full rearward position. (S16.2.10.3.1) |
| | | <div style="background-color: yellow; width: 20px; height: 15px; display: inline-block; vertical-align: middle;"></div> N/A, the seat does not have a fore-aft adjustment |
| <div style="background-color: yellow; width: 20px; height: 15px; margin: 0 auto;"></div> | 6. | If the seat height is adjustable, put it in the full down position. (S16.2.10.3.1) |
| | | <div style="background-color: yellow; width: 20px; height: 15px; display: inline-block; vertical-align: middle;"></div> N/A, no seat height adjustment |
| <div style="background-color: yellow; width: 20px; height: 15px; margin: 0 auto;"></div> | 7. | Draw a horizontal reference line on the side of the seat cushion |
| <div style="background-color: yellow; width: 20px; height: 15px; margin: 0 auto;"></div> | 8. | Using only the controls that change the seat in the fore-aft direction, mark the fore-aft seat positions. Mark the side of the seat and a reference position directly below on a part of the vehicle that does not adjust. For manual seats, move the seat forward one detent at a time and mark each detent as was done for the full rearward position. For power seats, mark only the full rearward, middle, and full forward positions. Label three of the positions with the following: F for full forward, M for mid-position (if there is no mid position, label the closest adjustment position to the rear of the mid-point), and R for full rearward. |
| | | <div style="background-color: yellow; width: 20px; height: 15px; display: inline-block; vertical-align: middle;"></div> N/A, the seat does not have a fore-aft adjustment. |
| <div style="background-color: yellow; width: 20px; height: 15px; margin: 0 auto;"></div> | 9. | Using only the controls that change the seat in the fore-aft direction, place the seat in the full rearward position and then place the seat in the forward most fore-aft position for this test. (S10.7) |
| <div style="background-color: yellow; width: 20px; height: 15px; margin: 0 auto;"></div> | 10. | If seat adjustments, other than fore-aft, are present and the horizontal reference line is no longer horizontal, use those adjustments to maintain the reference line as closely as possible to the horizontal. |
| | | <div style="background-color: yellow; width: 20px; height: 15px; display: inline-block; vertical-align: middle;"></div> N/A, no adjustments |
| <div style="background-color: yellow; width: 20px; height: 15px; margin: 0 auto;"></div> | | Reference line angle as tested: Zero |

- ☐ 11. The seat back angle, if adjustable, is set at the manufacturer's nominal design riding position for a 50th percentile adult male in the manner specified by the manufacturer. (S4.5.4.1 (b) and S8.1.3)
- ☐ N/A, no seat back angle adjustment
- ☐ Manufacturer's design seat back angle:
- ☐ Tested seat back angle:
- ☐ 12. Position the test dummy using the procedures in Appendix A. (Some modifications to the positioning procedure may need to be made because the seat is in its forward most position. Note on the Appendix A positioning check sheet any deviations necessary to position the Part 572, Subpart E dummy.) Include the positioning check sheet with this form.
- ☐ 13. Position the adjustable seat belt anchorage in the manufacturer's nominal design position for a 50th percentile adult male occupant.
- ☐ 14. Attach the inboard reach string to the base of the head following the instructions on Figure 3.
- ☐ 15. Attach the outboard reach string to the torso sheath following the instructions on Figure 3.
- ☐ 16. Place the latch plate in the stowed position.
- ☐ 17. Extend inboard reach string in front of the dummy and then backward and outboard to the latch plate to generate an arc of the reach envelope of the test dummy's arms. Is the latch plate within the reach envelope?
- ☐ Yes – Pass
- ☐ No
- ☐ 18. Extend outboard reach string in front of the dummy and then backward and outboard to the latch plate to generate an arc of the reach envelope of the test dummy's arms. Is the latch plate within the reach envelope?
- ☐ Yes – Pass
- ☐ No
- ☐ 19. Is the latch plate within the inboard (item 17) or outboard (item 18) reach envelope?
- ☐ Yes – Pass
- ☐ No – Fail
- ☐ 20. Using the clearance test block, specified in Figure 4, is there sufficient clearance between the vehicle seat and the side of vehicle interior to allow the test block to move unhindered to the latch plate or buckle?
- ☐ Yes – Pass
- ☐ No – Fail

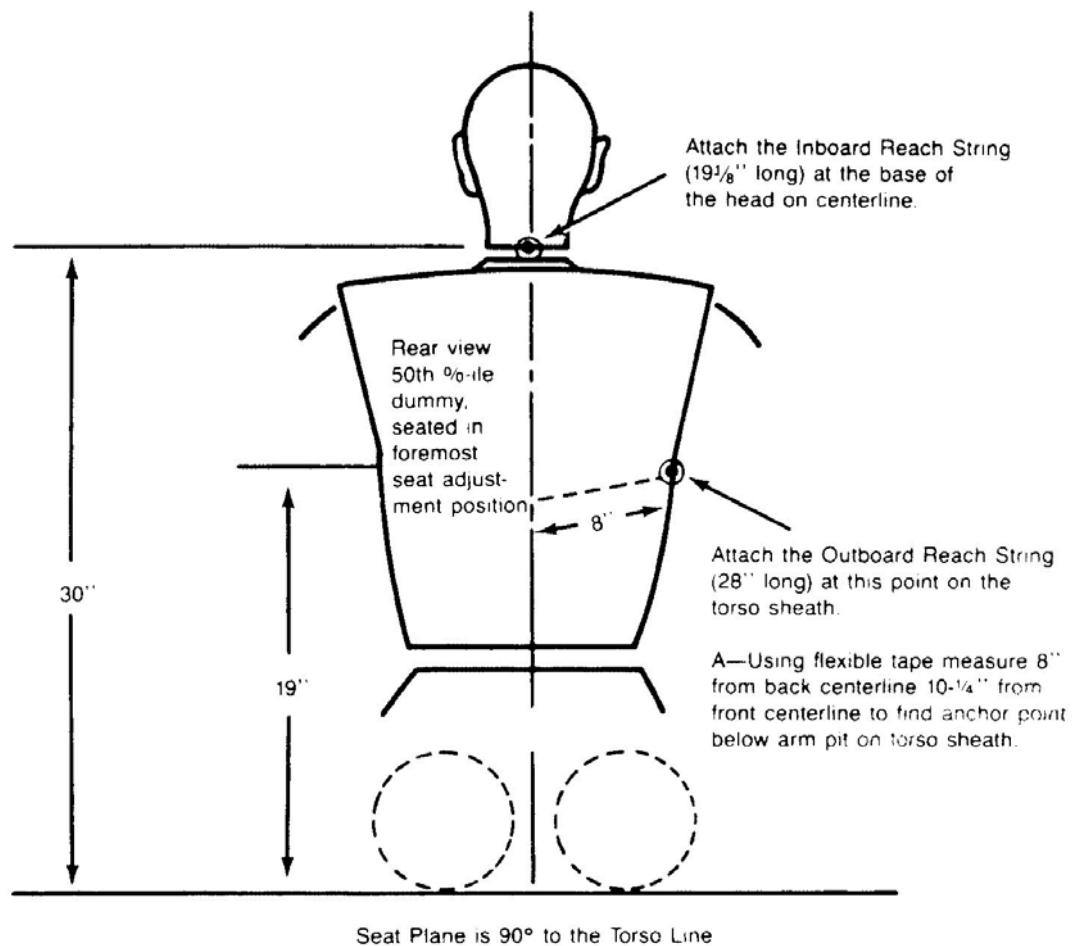


Figure 3. Location of Anchoring Points for Latchplate Reach Limiting Chains or Strings to Test for Latchplate Accessibility Using Subpart E Test Device

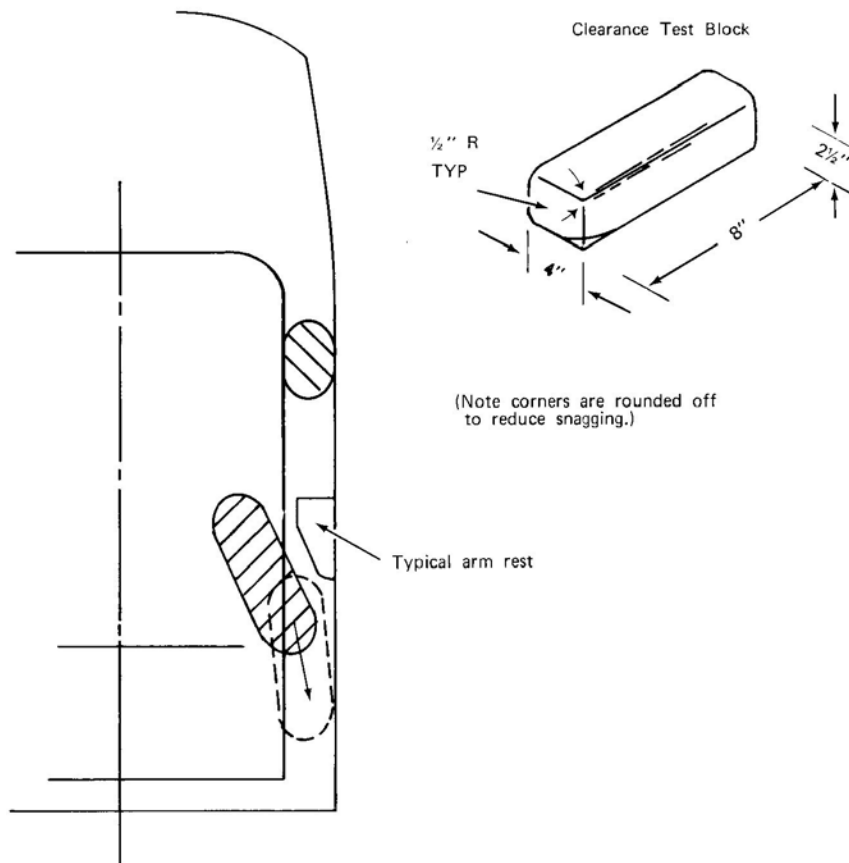


Figure 4—USE OF CLEARANCE TEST BLOCK TO DETERMINE HAND/ARM ACCESS

REMARKS:

I certify that I have read and performed each instruction.

Signature: *Spick Kosinski*

Date: 10/12/05

DATA SHEET 12

SEAT BELT RETRACTION (S7.4.5)

Test Vehicle: 2006 Toyota Corolla 4 Door
 Test Program: FMVSS 208 Compliance
 Test Technician: Nick Kosinski

NHTSA No.: C65102
 Test Date: 10/12/05

Test all front outboard seat belts other than those in walk-in van-type vehicles and those at front outboard designated seating positions in passenger cars. Complete a form for each applicable seat belt.

DESIGNATED SEATING POSITION:	Not Applicable For Any Position - Passenger Car
GVWR:	1626 kg

- X**

 1. Is the vehicle a passenger car or walk-in van-type vehicle?

X

 Yes, this form is complete
 No
2. Position the seat's adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S8.1.3)

N/A, no lumbar adjustment
3. Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S16.2.10.2)

N/A, no additional support adjustment
4. If the seat cushion adjusts fore and aft, independent of the seat back, set this adjustment to the full rearward position.) (S16.2.10.3.1)

N/A, no independent fore-aft seat cushion adjustment
5. If the seat cushion height adjusts independent of the seat back, set this adjustment to the full down position. (S16.2.10.3.1)

N/A, no independent seat cushion height adjustment
6. Put the seat in its full rearward position.

N/A, the seat does not have a fore-aft adjustment
7. If the seat height is adjustable, put it in the full down position. (S8.1.2)

N/A, no seat adjustment
8. Draw a horizontal line on the side of the seat cushion.
9. Using only the controls that change the seat in the fore-aft direction, mark the fore-aft seat positions. Mark the side of the seat and a reference position directly below on a part of the vehicle that does not adjust. For manual seats, move the seat forward one detent at a time and mark each detent as was done for the full rearward position. For power seats, mark only the full rearward, middle, and full forward positions. Label three of the positions with the following: F for full forward, M for mid-position (if there is no mid position, label the closest adjustment position to the rear of the mid-point), and R for full rearward.

N/A, the seat does not have a fore-aft adjustment.
10. Using only the controls that change the seat in the fore-aft direction, place the seat in the middle fore-aft position. (S8.1.2)

If there is no mid position, put the seat in the closest adjustment position to the rear of the midpoint. Describe the location of the seat:

11. If seat adjustments, other than fore-aft, are present and the reference line is no longer horizontal, use those adjustments to maintain the reference line as closely as possible to the horizontal. (S16.2.10.3.2)
- N/A – no seat adjustment
- Reference angle as tested:
12. The seat back angle, if adjustable, is set at the manufacturer's nominal design riding position for a 50th percentile adult male in the manner specified by the manufacturer. (S8.1.3)
- N/A – no seat back angle adjustment
- Manufacturer's design seat back angle:
- Tested seat back angle:
13. If adjustable, set the head restraint at the full up and full forward position. (S8.1.3) Any adjustment of the head restraint shall be used to position it full forward. For example, if it rotates, rotate it such that the head restraint extends as far forward as possible.
- N/A – no head restraint adjustment
14. Place any adjustable seat belt anchorages at the vehicle manufacturer's nominal design position for a 50th percentile adult male occupant (S8.1.3)
- N/A – no adjustable upper seat belt anchorage
- Manufacturer's specified anchorage position:
- Tested anchorage position:
15. Is the driver seat a bucket seat?
- Yes, go to 15.1 and skip 15.2.
- No, go to 15.2 and skip 15.1
- 15.1 Bucket seats - Locate and mark a vertical Plane B through the longitudinal centerline of the seat. The longitudinal centerline of a bucket seat cushion is determined at the widest part of the seat cushion. Measure perpendicular to the longitudinal centerline of the vehicle.
- Record the width of the seat:
- Record the distance from the edge of the seat to Plane B.
- 15.2 Bench seats (including split bench seats):
- Driver seat: Locate and mark a vertical Plane B through the center of the steering wheel parallel to the vehicle longitudinal centerline.
- Passenger seat: Locate and mark a vertical longitudinal Plane B on the seat that is the same distance from the longitudinal centerline of the vehicle as the center of the steering wheel.
- Distance from the vehicle centerline to the center of the steering wheel:
- Distance from the vehicle centerline to Plane B:
16. Stow outboard armrests that are capable of being stowed. (S7.4.5)
17. Remove the arms of a Subpart E dummy and place it in the seat such that the midsagittal plane is coincident with Plane B and the upper torso rests against the seat back. (S10.4.1.1 & S10.4.1.2)
18. Rest the thighs on the seat cushion

- ☐ 19. Position the H-point of the dummy within 0.5 inch of the vertical dimension and 0.5 inch of the horizontal dimension of a point 0.25 inch below the H-point determined by using the equipment and procedures specified in SAE J826 (APR 1980). (S10.4.2.1) Then measure the pelvic angle with respect to the horizontal using the pelvic angle gage. Adjust the dummy position until these three measurements are within the specifications. (S10.4.2.1 and S10.4.2.2)
- ☐ Horizontal inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)
 - ☐ Vertical inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)
 - ☐ Pelvic angle (20° to 25°)
- ☐ 20. Set the distance between the outboard knee clevis flange surfaces at 10.6 inches. Measured distance (10.6 inches) (S10.5):
- ☐ 21. To the extent practicable keep the thighs and the legs in a vertical plane (S10.5) and rest the thighs on the seat cushion while resting the feet on the floorpan or toe board.
- ☐ 22. Fasten the seat belt around the dummy.
- ☐ 23. Remove all slack from the lap belt portion. (S10.9)
- ☐ 24. Pull the upper torso webbing out of the retractor and allow it to retract; repeat this four times. (S10.9)
- ☐ 25. Apply a 2 to 4 pound tension load to the lap belt. (S10.9)
- ☐ Pound load applied:
- ☐ 26. Is the belt system equipped with a tension relieving device?
- ☐ Yes, continue
 - ☐ No, go to 27
- ☐ 26.1 Introduce the maximum amount of slack into the upper torso bet that is recommended by the vehicle manufacturer in the vehicle owner's manual. (S10.9). Go to 25.
- ☐ 27. Check the statement that applies to this test vehicle:
- ☐ 27.1 The torso and lap belt webbing of the seat belt system automatically retracts to a stowed position when the adjacent vehicle door is in an open position and the seat belt latch plate is released.
- ☐ Pass
- ☐ 27.2 The torso and lap belt webbing of the seat belt system automatically retracts when the seat belt latch plate is released.
- ☐ Pass
- ☐ 27.3 Neither 27.1 or 27.2 apply
- ☐ Fail
- ☐ 28. With the webbing and hardware in the stowed position are the webbing and hardware prevented from being pinched when the door is closed?
- ☐ Yes – Pass
 - ☐ No – Fail

☐

29. If this test vehicle has an open body (without doors) and has a belt system with a tension-relieving device, does the belt system fully retract when the tension-relieving device is deactivated?

☐

N/A

☐

Yes – Pass

☐

No – Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature:

Rich Kosinski

Date:

10/12/05

DATA SHEET 13

SEAT BELT GUIDES AND HARDWARE (S7.4.6)

Test Vehicle: 2006 Toyota Corolla 4 Door
 Test Program: FMVSS 208 Compliance
 Test Technician: Nick Kosinski

NHTSA No.: C65102
 Test Date: 10/12/05

Test seat belts except those in walk-in van-type vehicles and those at front outboard designated seating positions in passenger cars. Complete a form for each applicable seat belt.

DESIGNATED SEATING POSITION:	Left Rear Passenger
------------------------------	---------------------

- | | | | |
|----------|----|--|--|
| X | 1. | Is the seat cushion movable so that the seat back serves a function other than seating? (S7.4.6.1 (b)) | |
| | | <input type="checkbox"/> Yes, this form is complete | |
| | | X No, go to 2 | |
| X | 2. | Is the seat removable? (S7.4.6.1(b)) | |
| | | <input type="checkbox"/> Yes, this form is complete | |
| | | X No, go to 3 | |
| X | 3. | Is the seat movable so that the space formerly occupied by the seat can be used for a secondary function? (S7.4.6.1(b)) | |
| | | <input type="checkbox"/> Yes, this form is complete | |
| | | X No, go to 4 | |
| X | 4. | Is the webbing designed to pass through the seat cushion or between the seat cushion and seat back? (S7.4.6.1(a)) | |
| | | X Yes, go to 5 | |
| | | <input type="checkbox"/> No, this form is complete | |
| X | 5. | Does one of the following three parts, the seat belt latch plate, the buckle, or the seat belt webbing, stay on top of or above the seat cushion under normal conditions (i.e., conditions other than when belt hardware is intentionally pushed behind the seat by a vehicle occupant)? (S7.4.6.1(a)) | |
| | | X Yes – Pass | |
| | | <input type="checkbox"/> No – Fail | |
| | | Identify the part(s) on top or above the seat. | |
| | | X Seat belt latch plate | |
| | | X Buckle | |
| | | X Seat belt webbing | |
| X | 6. | Are the remaining two seat belt parts accessible under normal conditions? | |
| | | X Yes – Pass | |
| | | <input type="checkbox"/> No – Fail | |
| X | 7. | The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the belt is completely retracted or, if the belt is nonretractable, the belt is unlatched. (S7.4.6.2) | |
| | | X Yes – Pass | |
| | | <input type="checkbox"/> No – Fail | |

- ☒ 8. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the seat is moved to any position to which it is designed to be adjusted. (S7.4.6.2)
- ☒ Yes – Pass
☐ No – Fail
- ☒ 9. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the seat back, if foldable, is folded forward as far as possible and then moved backward into position. (S7.4.6.2)
- ☒ Yes – Pass
☐ No – Fail
- ☒ 10. Is the inboard receptacle end of the seat belt assembly, installed in the front outboard designated seating position, accessible with the center armrest in any position to which it can be adjusted (without moving the armrest)? (S7.4.6.2)
- ☐ Yes – Pass
☐ No – Fail
☒ N/A – Rear seat

REMARKS:

I certify that I have read and performed each instruction.

Signature: *Nick Kosinski*

Date: 10/12/05

DATA SHEET 13

SEAT BELT GUIDES AND HARDWARE (S7.4.6)

Test Vehicle: 2006 Toyota Corolla 4 Door
 Test Program: FMVSS 208 Compliance
 Test Technician: Nick Kosinski

NHTSA No.: C65102
 Test Date: 10/12/05

Test seat belts except those in walk-in van-type vehicles and those at front outboard designated seating positions in passenger cars. Complete a form for each applicable seat belt.

DESIGNATED SEATING POSITION:	Center Rear Passenger
------------------------------	-----------------------

- | | | |
|----------|----|--|
| X | 1. | Is the seat cushion movable so that the seat back serves a function other than seating? (S7.4.6.1 (b)) |
| | | <input type="checkbox"/> Yes, this form is complete |
| | | <input checked="" type="checkbox"/> No, go to 2 |
| X | 2. | Is the seat removable? (S7.4.6.1(b)) |
| | | <input type="checkbox"/> Yes, this form is complete |
| | | <input checked="" type="checkbox"/> No, go to 3 |
| X | 3. | Is the seat movable so that the space formerly occupied by the seat can be used for a secondary function? (S7.4.6.1(b)) |
| | | <input type="checkbox"/> Yes, this form is complete |
| | | <input checked="" type="checkbox"/> No, go to 4 |
| X | 4. | Is the webbing designed to pass through the seat cushion or between the seat cushion and seat back? (S7.4.6.1(a)) |
| | | <input checked="" type="checkbox"/> Yes, go to 5 |
| | | <input type="checkbox"/> No, this form is complete |
| X | 5. | Does one of the following three parts, the seat belt latch plate, the buckle, or the seat belt webbing, stay on top of or above the seat cushion under normal conditions (i.e., conditions other than when belt hardware is intentionally pushed behind the seat by a vehicle occupant)? (S7.4.6.1(a)) |
| | | <input checked="" type="checkbox"/> Yes – Pass |
| | | <input type="checkbox"/> No – Fail |
| | | Identify the part(s) on top or above the seat. |
| | | <input checked="" type="checkbox"/> Seat belt latch plate |
| | | <input checked="" type="checkbox"/> Buckle |
| | | <input checked="" type="checkbox"/> Seat belt webbing |
| X | 6. | Are the remaining two seat belt parts accessible under normal conditions? |
| | | <input checked="" type="checkbox"/> Yes – Pass |
| | | <input type="checkbox"/> No – Fail |
| X | 7. | The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the belt is completely retracted or, if the belt is nonretractable, the belt is unlatched. (S7.4.6.2) |
| | | <input checked="" type="checkbox"/> Yes – Pass |
| | | <input type="checkbox"/> No – Fail |

- ☒ 8. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the seat is moved to any position to which it is designed to be adjusted. (S7.4.6.2)
- ☒ Yes – Pass
☐ No – Fail
- ☒ 9. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the seat back, if foldable, is folded forward as far as possible and then moved backward into position. (S7.4.6.2)
- ☒ Yes – Pass
☐ No – Fail
- ☒ 10. Is the inboard receptacle end of the seat belt assembly, installed in the front outboard designated seating position, accessible with the center armrest in any position to which it can be adjusted (without moving the armrest)? (S7.4.6.2)
- ☐ Yes – Pass
☐ No – Fail
☒ N/A – Rear seat

REMARKS:

I certify that I have read and performed each instruction.

Signature: *Thick Kosinski*

Date: 10/12/05

DATA SHEET 13

SEAT BELT GUIDES AND HARDWARE (S7.4.6)

Test Vehicle: 2006 Toyota Corolla 4 Door
 Test Program: FMVSS 208 Compliance
 Test Technician: Nick Kosinski

NHTSA No.: C65102
 Test Date: 10/12/05

Test seat belts except those in walk-in van-type vehicles and those at front outboard designated seating positions in passenger cars. Complete a form for each applicable seat belt.

DESIGNATED SEATING POSITION:	Right Rear Passenger
------------------------------	----------------------

- | | | |
|----------|----|--|
| X | 1. | Is the seat cushion movable so that the seat back serves a function other than seating? (S7.4.6.1 (b))
<div style="margin-left: 20px;"> <input type="checkbox"/> Yes, this form is complete
 <input checked="" type="checkbox"/> No, go to 2 </div> |
| X | 2. | Is the seat removable? (S7.4.6.1(b))
<div style="margin-left: 20px;"> <input type="checkbox"/> Yes, this form is complete
 <input checked="" type="checkbox"/> No, go to 3 </div> |
| X | 3. | Is the seat movable so that the space formerly occupied by the seat can be used for a secondary function? (S7.4.6.1(b))
<div style="margin-left: 20px;"> <input type="checkbox"/> Yes, this form is complete
 <input checked="" type="checkbox"/> No, go to 4 </div> |
| X | 4. | Is the webbing designed to pass through the seat cushion or between the seat cushion and seat back? (S7.4.6.1(a))
<div style="margin-left: 20px;"> <input checked="" type="checkbox"/> Yes, go to 5
 <input type="checkbox"/> No, this form is complete </div> |
| X | 5. | Does one of the following three parts, the seat belt latch plate, the buckle, or the seat belt webbing, stay on top of or above the seat cushion under normal conditions (i.e., conditions other than when belt hardware is intentionally pushed behind the seat by a vehicle occupant)? (S7.4.6.1(a))
<div style="margin-left: 20px;"> <input checked="" type="checkbox"/> Yes – Pass
 <input type="checkbox"/> No – Fail
 Identify the part(s) on top or above the seat.
 <div style="margin-left: 20px;"> <input checked="" type="checkbox"/> Seat belt latch plate
 <input checked="" type="checkbox"/> Buckle
 <input checked="" type="checkbox"/> Seat belt webbing </div> </div> |
| X | 6. | Are the remaining two seat belt parts accessible under normal conditions?
<div style="margin-left: 20px;"> <input checked="" type="checkbox"/> Yes – Pass
 <input type="checkbox"/> No – Fail </div> |
| X | 7. | The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the belt is completely retracted or, if the belt is nonretractable, the belt is unlatched. (S7.4.6.2)
<div style="margin-left: 20px;"> <input checked="" type="checkbox"/> Yes – Pass
 <input type="checkbox"/> No – Fail </div> |

- ☒ 8. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the seat is moved to any position to which it is designed to be adjusted. (S7.4.6.2)
- ☒ Yes – Pass
☐ No – Fail
- ☒ 9. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the seat back, if foldable, is folded forward as far as possible and then moved backward into position. (S7.4.6.2)
- ☒ Yes – Pass
☐ No – Fail
- ☒ 10. Is the inboard receptacle end of the seat belt assembly, installed in the front outboard designated seating position, accessible with the center armrest in any position to which it can be adjusted (without moving the armrest)? (S7.4.6.2)
- ☐ Yes – Pass
☐ No – Fail
☒ N/A – Rear seat

REMARKS:

I certify that I have read and performed each instruction.

Signature: 

Date: 10/12/05

DATA SHEET 14

MARKING OF REFERENCE POINTS FOR VARIOUS TEST POSITIONS AND POINTS

Test Vehicle: 2006 Toyota Corolla
 Test Program: FMVSS 208 Compliance
 Test Technician: Eric Peschman

NHTSA No.: C65102
 Test Date: 10/20/05

1. Driver Designated Seating Position:

- | | | |
|-------------------------------------|------|--|
| <input checked="" type="checkbox"/> | 1.1 | Position the seat's adjustable lumbar supports so that the lumbar supports are in the lowest, retracted or deflated adjustment positions. (S16.2.10.1) |
| | | <input checked="" type="checkbox"/> N/A – No lumbar adjustment |
| <input checked="" type="checkbox"/> | 1.2 | Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position (S16.2.10.2) |
| | | <input checked="" type="checkbox"/> N/A – No additional support adjustment |
| <input checked="" type="checkbox"/> | 1.3 | Mark a point (seat cushion reference point) on the side of the seat cushion that is between 150 mm and 250 mm from the front edge of the seat cushion. |
| <input checked="" type="checkbox"/> | 1.4 | Draw a line (seat cushion reference line) through the seat cushion reference point. |
| <input checked="" type="checkbox"/> | 1.5 | Using only the controls that primarily move the seat in the fore-aft direction, move the seat cushion reference point to the rearmost position. |
| <input checked="" type="checkbox"/> | 1.6 | If the seat cushion adjusts fore-aft, independent of the seat back, use only the controls that primarily move the seat cushion in the fore-aft direction to move the seat cushion reference point to the rearmost position (S16.2.10.3) |
| | | <input checked="" type="checkbox"/> N/A – No independent fore-aft seat cushion adjustment |
| <input checked="" type="checkbox"/> | 1.7 | Using any part of any control, other than the parts just used for fore-aft positioning, determine the range of angles of the seat cushion reference line and set the seat cushion reference line at the mid-angle. |
| <input checked="" type="checkbox"/> | | Maximum Angle: 3.4° Nose Down |
| <input checked="" type="checkbox"/> | | Minimum Angle: 0.2° Nose Down |
| <input checked="" type="checkbox"/> | | Mid-angle: 3.0° Nose Up |
| <input checked="" type="checkbox"/> | 1.8 | If the seat and/or seat cushion height is adjustable, use any part of any control other than those which primarily move the seat or seat cushion fore-aft, to put the seat cushion reference point in its lowest position with the seat cushion reference line angle at the mid-angle found in 1.7. |
| | | <input type="checkbox"/> N/A – No seat height adjustment |
| <input checked="" type="checkbox"/> | 1.9 | Using only the controls that primarily move the seat in the fore-aft direction, verify the seat is in the rearmost position. |
| <input checked="" type="checkbox"/> | 1.10 | Using only the controls that primarily move the seat in the fore-aft direction, mark for future reference the fore-aft seat positions. Mark each position so that there is a visual indication when the seat is at a particular position. For manual seats, move the seat forward one detent at a time and mark each detent. For power seats, mark only the rearmost, middle, and foremost positions. Label three of the positions with the following: F for foremost, M for mid-position (if there is no mid-position, label the closest adjustment position to the rear of the mid-point), and R for rearmost. |
| <input checked="" type="checkbox"/> | 1.11 | Use only the controls that primarily move the seat in the fore-aft direction to place the seat in the rearmost position. |
| <input checked="" type="checkbox"/> | 1.12 | Using any controls, other than the controls that primarily move the seat and/or seat cushion in the fore-aft direction, find and visually mark for future reference the maximum, minimum, and middle height of the seat cushion reference point with the seat cushion reference line at the mid-angle determined in 1.7. |

- ☒ 1.13 Using only the controls that primarily move the seat and/or seat cushion in the fore-aft direction, place the seat in the mid-fore-aft position.
- ☒ 1.14 Using any controls, other than the controls that primarily move the seat in the fore-aft direction, find and visually mark for future reference the maximum, minimum, and middle height of the seat cushion reference point with the seat cushion reference line at the mid-angle determined in 1.7.
- ☒ 1.15 Using only the controls that change the seat in the fore-aft direction, place the seat in the foremost position.
- ☒ 1.16 Using any controls, other than the controls that primarily move the seat in the fore-aft direction, find and visually mark for future reference the maximum, minimum, and middle height of the seat cushion reference point with the seat cushion reference line at the mid-angle determined in 1.7.
- ☒ 1.17 Visually mark for future reference the seat back angle, if adjustable, at the manufacturer's nominal design riding position for a 50th percentile adult male in the manner specified by the manufacturer.
- ☐ N/A – No seat back angle adjustment
- ☒ Manufacturer's design seat back angle: 88.3 degrees on Head Rest Post
- ☒ 1.18 Is the seat a bucket seat?
- ☒ Yes, go to 1.18.1 and skip 1.18.2
- ☐ No, go to 1.18.2 and skip 1.18.1
- 1.18.1 Bucket seats:
- ☒ Locate and mark for future reference the longitudinal centerline of the seat cushion. The longitudinal centerline of a bucket seat cushion is determined at the widest part of the seat cushion. Measure perpendicular to the longitudinal centerline of the vehicle. (S16.3.1.10)
- ☒ Record the width of the seat cushion: Used SRP Provided By Manufacturer
- ☒ One half the width of the seat cushion is: Used SRP Provided By Manufacturer
- ☒ Record the distance from the edge of the seat cushion to the seat mark: 260 mm
- 1.18.2 Bench seats:
- ☐ Locate and mark for future reference the longitudinal line on the seat cushion that marks the longitudinal vertical plane through the centerline of the steering wheel.
2. Passenger Designated Seating Position
- ☒ 2.1 Is the seat adjustable independent of the driver seating position?
- ☒ Yes, go to 2.2
- ☐ No, go to 2.18
- ☒ 2.2 Position the seat's adjustable lumbar supports so that the lumbar supports are in the lowest, retracted or deflated adjustment positions (S16.2.10.1, S20.1.9.1, S22.1.7.1)
- ☒ N/A – No lumbar adjustment
- ☒ 2.3 Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S16.2.10.2, S20.1.9.2, S22.1.7.2)
- ☒ N/A – No additional support adjustment
- ☒ 2.4 Mark a point (seat cushion reference point) on the side of the seat cushion that is between 150 mm and 250 mm from the front edge of the seat cushion.
- ☒ 2.5 Draw a line (seat cushion reference line) through the seat cushion reference point.
- ☒ 2.6 Using only the controls that primarily move the seat in the fore-aft direction, move the seat cushion reference point to the rearmost position.

X	2.7	If the seat cushion adjusts fore-aft, independent of the seat back, use only the controls that primarily move the seat cushion in the fore-aft direction to move the seat cushion reference point to the rearmost position (S16.2.10.3, S20.1.9.3, S22.1.7.3)
X		N/A – No independent fore-aft seat cushion adjustment.
X	2.8	Using any part of the control, other than the parts just used for fore-aft positioning, determine the range of angles of the seat cushion reference line and set the seat cushion reference line at the mid-angle.
X		Maximum Angle: Not Adjustable
X		Minimum Angle: Not Adjustable
X		Mid-angle: Not Adjustable
X	2.9	If the seat and/or seat cushion height is adjustable, use any part of any control other than those which primarily move the seat or seat cushion fore-aft, to put the seat cushion reference point in its lowest position with the seat cushion reference line angle at the mid-range angle.
X		N/A – No seat height adjustment
X	2.10	Using only the controls that primarily move the seat and/or seat cushion in the fore-aft direction, verify the seat is in the rearmost position.
X	2.11	Using only the controls that primarily move the seat in the fore-aft direction, mark for future reference the fore-aft seat positions. Mark each position so that there is a visual indication when the seat is at a particular position. For manual seats, move the seat forward one detent at a time and mark each detent. For power seats, mark only the rearmost, middle, and foremost positions. Label three of the positions with the following: F for foremost, M for mid-position (if there is no mid-position, label the closest adjustment position to the rear of the mid-point), and R for rearmost.
X	2.12	Using only the controls that primarily move the seat in the fore-aft direction, place the seat in the rearmost position.
X	2.13	Using any controls, other than the controls that primarily move the seat in the fore-aft direction, find and visually mark for future reference the maximum, minimum, and middle height of the seat cushion reference point with the seat cushion reference line at the mid-angle determined in 2.8.
X		N/A – No seat height adjustment Go to 2.18
	2.14	Using only the controls that primarily move the seat in the fore-aft direction, place the seat in the mid-fore-aft position.
	2.15	Using any controls, other than the controls that primarily move the seat in the fore-aft direction, find and visually mark for future reference the maximum, minimum, and middle height of the seat cushion reference point with the seat cushion reference line at the mid-angle determined in 2.8.
	2.16	Using only the controls that change the seat in the fore-aft direction, place the seat in the foremost position.
	2.17	Using any controls, other than the controls that primarily move the seat in the fore-aft direction, find and visually mark for future reference the maximum, minimum, and middle height of the seat cushion reference point with the seat cushion reference line at the mid-angle determined in 2.8.

<input checked="" type="checkbox"/>	2.18	Visually mark for future reference the seat back angle, if adjustable, at the manufacturer's nominal design riding position for a 50 th percentile adult male in the manner specified by the manufacturer.
		<input type="checkbox"/> N/A – No seat back angle adjustment
		<input type="checkbox"/> N/A – The seat back angle adjustment is controlled by the setting of the driver seat back angle.
<input checked="" type="checkbox"/>		Manufacturer's design seat back angle: 89° on Head Rest Post
<input checked="" type="checkbox"/>		Actual seat back angle: 88.8° on Head Rest Post
<input checked="" type="checkbox"/>	2.19	Is the seat a bucket seat?
		<input checked="" type="checkbox"/> Yes, go to 2.19.1 and skip 2.19.2
		<input type="checkbox"/> No, go to 2.19.2 and skip 2.19.1
		2.19.1 Bucket seats:
		<input checked="" type="checkbox"/> Locate and mark for future reference the longitudinal centerline of the seat cushion. (S20.2.1.3, S22.2.1.3) The longitudinal centerline of a bucket seat cushion is determined at the widest part of the seat cushion. Measure perpendicular to the longitudinal centerline of the vehicle. (S20.1.10)
<input checked="" type="checkbox"/>		Record the width of the seat cushion: Used SRP Provided By Manufacturer
<input checked="" type="checkbox"/>		One half the width of the seat cushion is: Used SRP Provided By Manufacturer
		<input checked="" type="checkbox"/> Record the distance from the edge of the seat cushion to the longitudinal centerline of the seat cushion. (The vertical plane through this longitudinal centerline is Plane B for suppression.) 260 mm
		2.19.2 Bench seats:
		<input type="checkbox"/> Locate and mark for future reference the longitudinal centerline of the passenger seat cushion. The longitudinal centerline is the same distance from the longitudinal centerline of the vehicle as the center of the steering wheel. (S20.2.1.3, S22.2.1.3)
		<input type="checkbox"/> Record the distance from the longitudinal centerline of the vehicle to the center of the steering wheel:
		<input type="checkbox"/> Record the distance from the longitudinal centerline of the vehicle to the longitudinal centerline of the seat cushion. (The vertical plane through this longitudinal centerline is Plane B for suppression.)
<input checked="" type="checkbox"/>	3.	Head Restraints
		<input type="checkbox"/> N/A, vehicle contains automatic head restraints
		<input type="checkbox"/> N/A, there is no head restraint adjustment
<input checked="" type="checkbox"/>	3.1	Left outboard
<input checked="" type="checkbox"/>	3.1.1	Adjust the head restraint to its lowest position. (S16.3.4.2)
	3.1.2	Any adjustment of the head restraint shall be used to position it full forward. For example, if it rotates, rotate it such that the head restraint extends as far forward as possible. Mark the foremost position.
<input checked="" type="checkbox"/>	3.1.3	Measure the vertical distance from the top most point of the head restraint to the bottom most point. Locate and mark a horizontal plane through the midpoint of this distance.
<input checked="" type="checkbox"/>		Vertical height of head restraint (mm): 180
<input checked="" type="checkbox"/>		Mid-point height (mm): 90
<input checked="" type="checkbox"/>	3.2	Right outboard
<input checked="" type="checkbox"/>	3.2.1	Adjust the head restraint to its lowest position. (S16.3.4.2)

- ☐ 3.2.2 Any adjustment of the head restraint shall be used to position it full forward. For example, if it rotates, rotate it such that the head restraint extends as far forward as possible. **Mark** the foremost position.
- ☒ 3.2.3 Measure the vertical distance from the top most point of the head restraint to the bottom most point. Locate and **mark** a horizontal plane through the midpoint of this distance.
- ☒ Vertical height of head restraint (mm): 180
- ☒ Mid-point height (mm): 90
- ☒ 4. Steering Wheel
- ☒ 4.1 Is the steering wheel adjustable up and down and/or in and out?
- ☒ Yes, go to 4.2
- ☐ No, this form is complete
- ☒ 4.2 Find and **mark** for future reference each up and down position. Label three of the positions with the following: H for highest, M for mid-position (if there is no mid-position, label the next lowest adjustment position), and L for lowest.
- ☐ N/A, steering wheel is not adjustable up and down
- ☒ 4.3 Find and **mark** for future references each in and out position. Label three of the positions with the following: F for foremost, M for mid-position (if there is no mid-position, label the next rearmost adjustment position), and R for rearmost.
- ☒ N/A, steering wheel is not adjustable in and out
- ☒ 5. Driver Low Risk Deployment
- ☒ N/A, no low risk deployment tests scheduled
- ☐ 5.1 Position the steering wheel so the front wheels are in the straight-ahead position. (S26.2.1)
- ☐ 5.2 Position any adjustable parts of the steering controls to the mid-position as determined in item 3 above. If a mid-position adjustment is not achievable, position the controls to the next lowest detent position. (S26.2.1)
- ☐ 5.3 Locate the vertical plane parallel to the vehicle longitudinal centerline through the geometric center of the opening through which the driver air bag deploys into the occupant compartment. This is referred to as "Plane E". (Check determination method below.) (S26.2.6)
- ☐ Plane E determined using manufacturer's information supplied by the COTR. (Found in Appendix D on page D-39)
- ☐ Plane E determined by test lab personnel and approved by the COTR. (Include supporting documentation in the test report.)

	Ey (mm)
"Plane E" Measurement:	
Measured:	
Specified:	
Verify Measured Equals Specified +/- 6mm:	

- ☐ 5.4 Locate the horizontal plane through the highest point of the air bag module cover. This is referred to as "Plane F." (Check determination method below.) (S26.2.6)

☐ Plane F determined using manufacturer's information supplied by the COTR .
(Found in Appendix D on page D-39)

☐ Plane F determined by test lab personnel and approved by the COTR.
(Include supporting documentation in the test report.)

	Fz (mm)
"Plane F" Measurement:	
Measured:	
Specified:	
Verify Measured Equals Specified +/- 6mm:	

- ☒ 6. Passenger Low Risk Deployment – Planes C and D

☒ N/A, no low risk deployment tests scheduled

- ☐ 6.1 Locate the horizontal plane through the geometric center of the opening through which the right front air bag deploys into the occupant compartment. This is referred to as "Plane C." (Check location method below.) (S22.4.1.3)

☐ Plane C located using manufacturer's information supplied by the COTR.
(Include manufacturer's information in the test report.) OR

☐ Plane C located by test lab personnel and approved by the COTR.
(Include supporting documentation in the test report.)

	Cz (mm)
"Plane C" Measurement:	
Measured:	
Specified:	
Verify Measured Equals Specified +/- 6mm:	

- ☐ 6.2 Locate the vertical plane parallel to the vehicle longitudinal centerline through the geometric center of the opening through which the right front air bag deploys into the occupant compartment. This is referred to as "Plane D." (Check determination method below.) (S22.4.1.2)

☐ Plane D determined using manufacturer's information supplied by the COTR.
(Include manufacturer's information in the test report.) OR

☐ Plane D determined by test lab personnel and approved by the COTR.
(Include supporting documentation in the test report.)

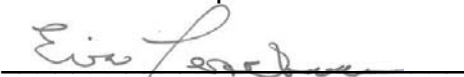
	Dy (mm)
"Plane D" Measurement:	
Measured:	
Specified:	
Verify Measured Equals Specified +/- 6mm:	

- ☐ 6.3 **Mark** the intersection of Planes C and D on the instrument panel.

- ☐ 7. 5th Female Dummy
Mark a point on the chin of the dummy 40 mm below the center of the mouth. (Chin Point) (S26.2.6)
- ☐ 8. 6-Year-Old Dummy
Locate and **mark** a point on the front of the dummy's chest jacket on the midsagittal plane which is 139 mm (5.5 in) \pm 3 mm (\pm 0.1 in) along the surface of the skin down from the top of the skin at the neck line. Designate this point as "Point 1." (S24.4.1.1)
☐ "Point 1" measurement (mm):
- ☐ 9. 3-Year-Old Dummy
Locate and **mark** a point on the front of the dummy's chest jacket on the midsagittal plane which is 114 mm (4.5 in) \pm 3 mm (\pm 0.1 in) along the surface of the skin down from the top of the skin at the neck line. Designate this point as "Point 1." (S22.4.1.1)
☐ "Point 1" measurement (mm +/- 3 mm):

REMARKS:

I certify that I have read and performed each instruction.

Signature: 

Date: 10/20/05

DATA SHEET 30 VEHICLE WEIGHT, FUEL TANK, AND ATTITUDE DATA

Test Vehicle: 2006 Toyota Corolla
 Test Program: FMVSS 208 Compliance
 Test Technician: Nick Kosinski

NHTSA No.: C65102
 Test Date: 10/20/05

IMPACT ANGLE:	Zero Degrees		
BELTED DUMMIES (YES/NO):	No		
TEST SPEED:	<input checked="" type="checkbox"/> 32 to 40 kmph	<input type="checkbox"/> 0 to 48 kmph	<input type="checkbox"/> 0 to 56 kmph
DRIVER DUMMY:	<input type="checkbox"/> 5 th Female		<input checked="" type="checkbox"/> 50 th Male
PASSENGER DUMMY:	<input type="checkbox"/> 5 th Female		<input checked="" type="checkbox"/> 50 th Male

- | | | |
|-------------------------------------|-----|---|
| <input checked="" type="checkbox"/> | 1. | Fill the transmission with transmission fluid to the satisfactory range. |
| <input checked="" type="checkbox"/> | 2. | Drain fuel from vehicle |
| <input checked="" type="checkbox"/> | 3. | Run the engine until fuel remaining in the fuel delivery system is used and the engine stops. |
| <input checked="" type="checkbox"/> | 4. | Record the useable fuel tank capacity supplied by the COTR |
| <input checked="" type="checkbox"/> | | Useable Fuel Tank Capacity supplied by COTR: 50.0 liters (13.2 gallons) |
| <input checked="" type="checkbox"/> | 5. | Record the fuel tank capacity supplied in the owner's manual. |
| <input checked="" type="checkbox"/> | | Useable Fuel Tank Capacity in owner's manual: 50.0 liters (13.2 gallons) |
| <input checked="" type="checkbox"/> | 6. | Using purple dyed Stoddard solvent having the physical and chemical properties of Type 1 solvent or cleaning fluid, Table 1, ASTM Standard D484-71, "Standard Specifications for Hydrocarbon Dry-cleaning Solvents," or gasoline, fill the fuel tank. |
| <input checked="" type="checkbox"/> | | Amount Added: 50.0 liters (13.2 gallons) |
| <input checked="" type="checkbox"/> | 7. | Fill the coolant system to capacity. |
| <input checked="" type="checkbox"/> | 8. | Fill the engine with motor oil to the Max. mark on the dip stick. |
| <input checked="" type="checkbox"/> | 9. | Fill the brake reservoir with brake fluid to its normal level. |
| <input checked="" type="checkbox"/> | 10. | Fill the windshield washer reservoir to capacity. |
| <input checked="" type="checkbox"/> | 11. | Inflate the tires to the tire pressure on the tire placard. If no tire placard is available, inflate the tires to the recommended pressure in the owner's manual. |

Tire placard pressure:	RF:	30 psi	LF:	30 psi	RR:	30 psi	LR:	30 psi
Owner's manual pressure:	RF:	30 psi	LF:	30 psi	RR:	30 psi	LR:	30 psi
Actual inflated pressure:	RF:	30 psi	LF:	30 psi	RR:	30 psi	LR:	30 psi

- | | | |
|-------------------------------------|-----|--|
| <input checked="" type="checkbox"/> | 12. | Record the vehicle weight at each wheel to determine the unloaded vehicle weight (UVW), i.e. "as delivered" weight). |
|-------------------------------------|-----|--|

Right Front (kg):	350.0	Right Rear (kg):	224.0
Left Front (kg):	369.0	Left Rear (kg):	217.5
Total Front (kg):	719.0	Total Rear (kg):	441.5
% Total Weight:	62.0	% Total Weight:	38.0
UVW = TOTAL FRONT PLUS TOTAL REAR (KG):		1160.5	

- | | | |
|-------------------------------------|------|---|
| <input checked="" type="checkbox"/> | 13. | UVW Test Vehicle Attitude: (All dimensions in millimeters) |
| <input checked="" type="checkbox"/> | 13.1 | Mark a point on the vehicle above the center of each wheel. |
| <input checked="" type="checkbox"/> | 13.2 | Place the vehicle on a level surface. |

- ☒ 13.3 Measure perpendicular to the level surface to the 4 points marked on the body and record the measurements

RF:	700	LF:	696	RR:	706	LR:	708
-----	-----	-----	-----	-----	-----	-----	-----

- ☒ 14. Calculate the Rated Cargo and Luggage Weight (RCLW): 45 kg
- ☒ 14.1 Does the vehicle have the vehicle capacity weight (VCW) on the certification label or tire placard?

- ☒ Yes, go to 14.3
- ☐ No, go to 14.2

- ☐ 14.2 VCW = Gross Vehicle Weight – UVW

$$VCW = \underline{\hspace{2cm}} - \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

- ☒ 14.3 VCW = 385 kg (850 lbs)

- ☒ 14.4 Does the certification or tire placard contain the Designated Seating Capacity (DSC)?

- ☒ Yes, go to 14.6
- ☐ No, go to 14.5 and skip 14.6

- ☐ 14.5 DSC = Total number of seat belt assemblies =

- ☒ 14.6 DSC = 5

- ☒ 14.7 RCLW = VCW – (68 kg x DSC) = 385 kg - (68 kg x 5) = 45 kg

- ☒ 14.8 Is the vehicle certified as a truck, MPV or bus (see the certification label on the door jamb)?

- ☐ Yes, if the calculated RCLW is greater than 136 kg, use 136 kg as the RCLW. (S8.1.1)
- ☒ No, use the RCLW calculated in 14.7

- ☒ 15. Fully Loaded Weight (100% fuel fill): 1362.0 kg

- ☒ 15.1 Place the appropriate test dummy in both front outboard seating positions.

Driver: 5th female ☒ 50th male

Passenger: 5th female ☒ 50th male

- ☒ 15.2 Load the vehicle with the RCLW from 14.7 or 14.8 whichever is applicable.

- ☒ 15.3 Place the RCLW in the cargo area. Center the load over the longitudinal centerline of the vehicle. (S8.1.1 (d))

- ☒ 15.4 Record the vehicle weight at each wheel to determine the Fully Loaded Weight.

Right Front (kg):	395.5	Right Rear (kg):	278.5
Left Front (kg):	421.5	Left Rear (kg):	266.5
Total Front (kg):	817.0	Total Rear (kg):	545.0
% Total Weight:	60.0	% Total Weight:	40.0
% GVW	52.6	% GVW	48.0
(% GVW = Axle GVW divided by Vehicle GVW)			
Fully Loaded Weight = Total Front Plus Total Rear (kg):			1362.0

- ☒ 16. Fully Loaded Test Vehicle Attitude: (All dimensions in millimeters)

- ☒ 16.1 Place the vehicle on a level surface.

- X** 16.2 Measure perpendicular to the level surface to the 4 points marked on the body (see 13.1 above) and record the measurements
- | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| RF: | 675 | LF: | 673 | RR: | 681 | LR: | 684 |
|-----|-----|-----|-----|-----|-----|-----|-----|
- X** 17. Drain the fuel system
- X** 18. Using purple dyed Stoddard solvent having the physical and chemical properties of Type 1 solvent or cleaning fluid, Table 1, ASTM Standard D484-71, "Standard Specifications for Hydrocarbon Dry-cleaning Solvents," fill the fuel tank to 92 - 94 percent of useable capacity.
- X** Fuel tank capacity x .94 = 50.0 liters (13.2 gallons) x .94 = 47.0 liters (12.4 gallons)
- X** Amount added 46.6 liters (12.3 gallons) 93.2%
- X** 19. Crank the engine to fill the fuel delivery system with Stoddard solvent
- X** 20. Calculate the test weight range.
- X** 20.1 Calculated Weight = UVW (see 12 above) + RCLW (see 14 above) + 2x(dummy weight)
- 1361.5 kg = 1160.5 kg + 45.0 kg + 156.0 kg
- X** 20.2 Test Weight Range = Calculated Weight (- 4.5 kg, - 9 kg.)
 Max. Test Weight = Calculated Test Weight – 4.5 kg = 1357.0 kg
 Min. Test Weight = Calculated Test Weight – 9 kg = 1352.5kg
- X** 21. Remove the RCLW from the cargo area.
- X** 22. Drain transmission fluid, engine coolant, motor oil, and windshield washer fluid from the test vehicle so that Stoddard solvent leakage from the fuel system will be evident.
- X** 23. Vehicle Components Removed For Weight Reduction:
Spare tire, jack & tools, trunk interior & divider
- X** 24. Secure the equipment and ballast in the load carrying area and distribute it, as nearly as possible, to obtain the proportion of axle weight indicated by the gross axle weight ratings and center it over the longitudinal centerline of the vehicle.
- X** 25. If necessary, add ballast to achieve the actual test weight.
- X** N/A
- X** Weight of Ballast: 22.7 kg in trunk
- X** 26. Ballast, including test equipment, must be contained so that it will not shift during the impact event or interfere with data collection or interfere with high-speed film recordings or affect the structural integrity of the vehicle or do anything else to affect test results. Care must be taken to assure that any attachment hardware added to the vehicle is not in the vicinity of the fuel tank or lines.
- X** 27. Record the vehicle weight at each wheel to determine the actual test weight.

Right Front (kg):	383.5	Right Rear (kg):	291.5
Left Front (kg):	404.0	Left Rear (kg):	275.5
Total Front (kg):	787.5	Total Rear (kg):	567.0
% Total Weight:	58.1	% Total Weight:	41.9
% GVW	52.6	% GVW	48.0
(% GVW = Axle GVW divided by Vehicle GVW)			
TOTAL FRONT PLUS TOTAL REAR (kg):			1354.5

<div style="border: 1px solid black; padding: 2px; text-align: center; width: 30px; margin: 0 auto;">X</div>	28.	Is the test weight between the Max. Weight and the Min. Weight (See 20.2)?								
	<div style="border: 1px solid black; padding: 2px; text-align: center; width: 30px; margin: 0 auto;">X</div>	Yes								
	<div style="border: 1px solid black; padding: 2px; text-align: center; width: 30px; margin: 0 auto;"></div>	No, explain why not.								
<div style="border: 1px solid black; padding: 2px; text-align: center; width: 30px; margin: 0 auto;">X</div>	29.	Test Weight Vehicle Attitude: (all dimensions in millimeters)								
<div style="border: 1px solid black; padding: 2px; text-align: center; width: 30px; margin: 0 auto;">X</div>	29.1	Place the vehicle on a level surface								
<div style="border: 1px solid black; padding: 2px; text-align: center; width: 30px; margin: 0 auto;">X</div>	29.2	Measure perpendicular to the level surface to the 4 points marked on the body (see 13 above) and record the measurements								
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RF:	678	LF:	675	RR:	698	LR:	700			
<div style="border: 1px solid black; padding: 2px; text-align: center; width: 30px; margin: 0 auto;">X</div>	30.	Summary of test attitude								
<div style="border: 1px solid black; padding: 2px; text-align: center; width: 30px; margin: 0 auto;">X</div>	30.1	AS DELIVERED:								
<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 25%;">RF:</td> <td style="width: 25%;">700</td> <td style="width: 25%;">LF:</td> <td style="width: 25%;">696</td> <td style="width: 25%;">RR:</td> <td style="width: 25%;">706</td> <td style="width: 25%;">LR:</td> <td style="width: 25%;">708</td> </tr> </table>			RF:	700	LF:	696	RR:	706	LR:	708
RF:	700	LF:	696	RR:	706	LR:	708			
AS TESTED:										
<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 25%;">RF:</td> <td style="width: 25%;">678</td> <td style="width: 25%;">LF:</td> <td style="width: 25%;">675</td> <td style="width: 25%;">RR:</td> <td style="width: 25%;">698</td> <td style="width: 25%;">LR:</td> <td style="width: 25%;">700</td> </tr> </table>			RF:	678	LF:	675	RR:	698	LR:	700
RF:	678	LF:	675	RR:	698	LR:	700			
FULLY LOADED:										
<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 25%;">RF:</td> <td style="width: 25%;">675</td> <td style="width: 25%;">LF:</td> <td style="width: 25%;">673</td> <td style="width: 25%;">RR:</td> <td style="width: 25%;">681</td> <td style="width: 25%;">LR:</td> <td style="width: 25%;">684</td> </tr> </table>			RF:	675	LF:	673	RR:	681	LR:	684
RF:	675	LF:	673	RR:	681	LR:	684			
<div style="border: 1px solid black; padding: 2px; text-align: center; width: 30px; margin: 0 auto;">X</div>	30.2	Is the "as tested" test attitude equal to or between the "fully loaded" and "as delivered" attitude?								
	<div style="border: 1px solid black; padding: 2px; text-align: center; width: 30px; margin: 0 auto;">X</div>	Yes								
	<div style="border: 1px solid black; padding: 2px; text-align: center; width: 30px; margin: 0 auto;"></div>	No, explain why not.								

REMARKS:

I certify that I have read and performed each instruction.

Signature: *Nick Kosinski*

Date: 10/20/05

DATA SHEET 31

VEHICLE ACCELEROMETER LOCATION AND MEASUREMENT

Test Vehicle: 2006 Toyota Corolla
 Test Program: FMVSS 208 Compliance
 Test Technician: Nick Kosinski

NHTSA No.: C65102
 Test Date: 10/20/05

IMPACT ANGLE:	Zero Degrees		
BELTED DUMMIES (YES/NO):	No		
TEST SPEED:	X 32 to 40 kmph	0 to 48 kmph	0 to 56 kmph
DRIVER DUMMY:	5 th Female		X 50 th Male
PASSENGER DUMMY:	5 th Female		X 50 th Male

- X

 1. Find the location where the vertical plane parallel to the longitudinal centerline of the vehicle and through the center of the left front outboard seating position intersects the left rear seat cross member. Install an accelerometer at this intersection on the rear seat cross member to record x-direction accelerations. Record the location on the following chart.
- X

 2. Find the location where the vertical plane parallel to the longitudinal centerline of the vehicle and through the center of the right front outboard seating position intersects the right rear seat cross member. Install an accelerometer at this intersection on the rear seat cross member to record x-direction accelerations. Record the location on the following chart.
- X

 3. Find the location where a vertical plane through the longitudinal centerline of the vehicle and a vertical transverse plane through the center of the two wheels on opposite sides of the engine intersect at the top of the engine. Install an accelerometer at this intersection to record x-direction accelerations. Record the location on the following chart.
- X

 4. Find the location where a vertical plane through the longitudinal centerline of the vehicle and a vertical transverse plane through the center of the two wheels on opposite sides of the engine intersect the bottom of the engine. Install an accelerometer at this intersection to record x-direction accelerations. Record the location on the following chart.
- X

 5. Install an accelerometer on the right front brake caliper to record x-direction accelerations. Record the location on the following chart.
- X

 6. Find the location where a vertical plane through the longitudinal centerline of the vehicle intersects the top of the instrument panel. Install an accelerometer at this intersection to record x-direction accelerations. Record the location on the following chart.
- X

 7. Install an accelerometer on the left front brake caliper to record x-direction accelerations. Record the location on the following chart.
- X

 8. Find the location where a vertical plane through the longitudinal centerline of the vehicle intersects the floor of the trunk. Install an accelerometer on the trunk floor at this intersection to record z-direction accelerations. Record the location on the following chart.

REMARKS:

I certify that I have read and performed each instruction.

Signature: _____

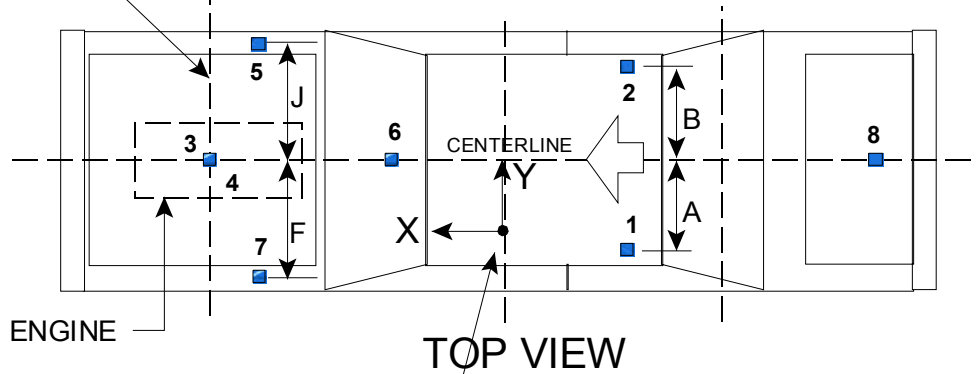
Nick Kosinski

Date: _____

10/20/05

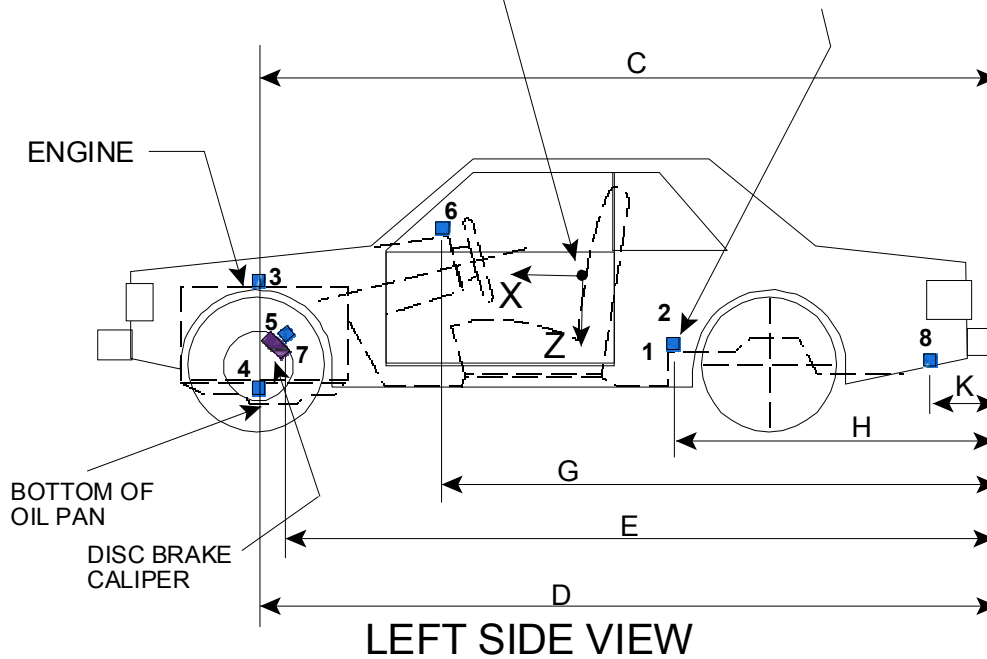
VEHICLE ACCELEROMETER LOCATION AND DATA SUMMARY

CENTERLINE OF
FRONT WHEELS



ACCELEROMETER
COORDINATE SYSTEM
(POSITIVE DIRECTION SHOWN)

REAR SEAT CUSHION
ASSY. FRONT ATTACHMENT
BRACKET SUPPORT



Dimensions Corresponding To The Letters "A" Through "K" (Excluding "I") Are Recorded In The Table On The Following Page.
Accelerometers Corresponding To The Numbers 1 Through 8 Are Specified On The Preceding Page.

DATA SHEET 31
VEHICLE ACCELEROMETER LOCATION AND MEASUREMENTS

<u>DIMENSION</u>	<u>LENGTH (mm)</u>			
<u>PRETEST VALUES</u>				
<u>A</u> (LH Rear Seat Xmbr)	348			
<u>B</u> (RH Rear Seat Xmbr)	348			
<u>C</u> (Engine Top)	3743			
<u>D</u> (Engine Bottom)	3812			
<u>E</u> (Caliper)	Right Side	3696	Left Side	3696
<u>F</u> (Left Caliper)	635			
<u>G</u> (IP)	3019			
<u>H</u> (Seat)	1840			
<u>J</u> (Right Caliper)	636			
<u>K</u> (Trunk)	1088			
<u>POST TEST VALUES</u>				
<u>A</u> (LH Rear Seat Xmbr)	348			
<u>B</u> (RH Rear Seat Xmbr)	348			
<u>C</u> (Engine Top)	3660			
<u>D</u> (Engine Bottom)	3615			
<u>E</u> (Caliper)	Right Side	3692	Left Side	3693
<u>F</u> (Left Caliper)	630			
<u>G</u> (IP)	3024			
<u>H</u> (Seat)	1840			
<u>J</u> (Right Caliper)	638			
<u>K</u> (Trunk)	1088			

DATA SHEET 32

PHOTOGRAPHIC TARGETS



Test Vehicle: 2006 Toyota Corolla
 Test Program: FMVSS 208 Compliance
 Test Technician: Nick Kosinski

NHTSA No.: C65102
 Test Date: 10/20/05

IMPACT ANGLE:	Zero Degrees		
BELTED DUMMIES (YES/NO):	No		
TEST SPEED:	<u>X</u> 32 to 40 kmph	<u> </u> 0 to 48 kmph	<u> </u> 0 to 56 kmph
DRIVER DUMMY:	<u> </u> 5 th Female	<u>X</u> 50 th Male	
PASSENGER DUMMY:	<u> </u> 5 th Female	<u>X</u> 50 th Male	

- | | | |
|-------------------------------------|------|--|
| <input checked="" type="checkbox"/> | 1. | FMVSS 208 vehicle targeting requirements (See Figures 28A and 28B) |
| <input checked="" type="checkbox"/> | 1.1 | Targets A1 and A2 are on flat rectangular panels. |
| <input checked="" type="checkbox"/> | 1.2 | Three circular targets at least 90 mm in diameter and with black and yellow quadrants are mounted at the front on the outboard sides of A1 and A2. The center of each circular target is 100 mm from the one next to it. |
| <input checked="" type="checkbox"/> | | Distance between targets (mm): 100 mm |
| <input checked="" type="checkbox"/> | 1.3 | Three circular targets at least 90 mm in diameter and with black and yellow quadrants are mounted at the back on the outboard sides of on A1 and A2. The center of each circular target is 100 mm from the one next to it. |
| <input checked="" type="checkbox"/> | | Distance between targets (mm): 100 mm |
| <input checked="" type="checkbox"/> | 1.4 | The distance between the first circular target at the front of A1 and A2 and the last circular target at the back of A1 and A2 is at least 915 mm. |
| <input checked="" type="checkbox"/> | | Distance between the first and last circular targets (mm): 915 mm |
| <input checked="" type="checkbox"/> | 1.5 | Firmly fix target A1 on the vehicle roof in the vertical longitudinal plane that is coincident with the midsagittal plane of the driver dummy. |
| <input checked="" type="checkbox"/> | 1.6 | Firmly fix target A2 on the vehicle roof in the vertical longitudinal plane that is coincident with the midsagittal plane of the passenger dummy. |
| <input checked="" type="checkbox"/> | 1.7 | Two circular targets (C1 and C2) at least 90 mm in diameter and with black and yellow quadrants are mounted on the outside of the driver door. The centers of each circular target are at least 610 mm apart. |
| <input checked="" type="checkbox"/> | | Distance between targets (mm): 610 mm |
| <input checked="" type="checkbox"/> | 1.8 | Two circular targets (C1 and C2) at least 90 mm in diameter and with black and yellow quadrants are mounted on the outside of the passenger door. The centers of each circular target are at least 610 mm apart. |
| <input checked="" type="checkbox"/> | | Distance between targets (mm): 610 mm |
| <input checked="" type="checkbox"/> | 1.9 | Place tape with squares having alternating colors on the top portion of the steering wheel. |
| <input checked="" type="checkbox"/> | 1.10 | Chalk the bottom portion of the steering wheel |
| <input checked="" type="checkbox"/> | 1.11 | Is this an offset test? |
| | | <input type="checkbox"/> Yes, continue with this section |
| | | <input checked="" type="checkbox"/> No, go to 2. |
| | 1.12 | Measure the width of the vehicle. |
| | | Vehicle width (mm): |

<input type="checkbox"/>	1.13	Find the centerline of the vehicle. ($\frac{1}{2}$ of the vehicle width)
<input type="checkbox"/>	1.14	Find the line parallel to the centerline of the vehicle and 0.1 x vehicle width from the centerline of the vehicle.
<input type="checkbox"/>	1.15	Apply 25 mm wide tape with alternating black and yellow squares parallel to and on each side of the line found in 1.14. The edge of each tape shall be 50 mm from the line found in 1.14. The tape shall extend from the bottom of the bumper to the front edge of the windshield. (Figure 28D)
<input checked="" type="checkbox"/>	2.	Barrier Targeting
<input checked="" type="checkbox"/>	2.1	Fix two stationary targets D1 and D2 to the barrier as shown in the Figure 28A. One target is in the vertical longitudinal plane that is coincident with the midsagittal plane of the driver dummy. The other is in the vertical longitudinal plane that is coincident with the midsagittal plane of the passenger dummy
<input checked="" type="checkbox"/>	2.2	Targets D1 and D2 are on a rectangular panel.
<input checked="" type="checkbox"/>	2.3	Three circular targets at least 90 mm in diameter and with black and yellow quadrants are mounted on the sides of the rectangular panel away from the longitudinal centerline of the vehicle. The center of each circular target is 100 mm from the one next to it.
<input checked="" type="checkbox"/>		Distance between circular targets on D1 (mm): 100 mm
<input checked="" type="checkbox"/>		Distance between circular targets on D2 (mm): 100 mm
<input checked="" type="checkbox"/>	3.	FMVSS 208 Dummy Targeting Requirements
<input checked="" type="checkbox"/>	3.1	Place a circular target with black and yellow quadrants on both sides of the driver dummy head as close as possible to the center of gravity of the head in the x and z direction (relative to the measuring directions of the accelerometers).
<input checked="" type="checkbox"/>	3.2	Place a circular target with black and yellow quadrants on both sides of the passenger dummy head as close as possible to the center of gravity of the head in the x and z direction (relative to the measuring directions of the accelerometers).
<input checked="" type="checkbox"/>	3.3	Place a circular target with black and yellow quadrants on the outboard shoulder of the driver dummy. Place the target as high up on the arm as possible at the intersection of the arm and shoulder. The sleeve of the shirt on the dummy may be cut to make the target visible, but do not remove any material.
<input checked="" type="checkbox"/>	3.4	Place a circular target with black and yellow quadrants on the outboard shoulder of the passenger dummy. Place the target as high up on the arm as possible at the intersection of the arm and shoulder. The sleeve of the shirt on the dummy may be cut to make the target visible, but do not remove any material.
<input checked="" type="checkbox"/>	4.	FMVSS 204 Targeting Requirements
<input checked="" type="checkbox"/>	4.1	Is an FMVSS 204 indicant test ordered on the "COTR Vehicle Work Order?"
<input type="checkbox"/>		Yes, continue with this form.
<input checked="" type="checkbox"/>		No, this form is complete.
<input type="checkbox"/>	4.2	Resection panel (Figure 28C)
<input type="checkbox"/>	4.2.1	The panel deviates no more than 6 mm from perfect flatness when suspended vertically
<input type="checkbox"/>	4.2.2	The 8 targets on the panel are circular targets at least 90 mm in diameter and with black and yellow quadrants.
<input type="checkbox"/>	4.2.3	The center of each of the 4 outer targets are placed within 1 mm of the corners of a square measuring 914 mm on each side.
<input type="checkbox"/>	4.2.4	Locate another square with 228 mm sides and with the center of this square coincident with the center of the 914 mm square.
<input type="checkbox"/>	4.2.5	The center of the 4 inner targets are placed at the midpoints of each of the 228 mm sides.

-  4.3 Place a circular target at least 90 mm in diameter and with black and yellow quadrants on a material (cardboard, metal, etc.) that can be taped to the top of the steering column.
-  4.4 Tape the target from 4.3 to the top of the steering column in a manner that does not interfere with the movement of the steering column in a crash

I certify that I have read and performed each instruction.

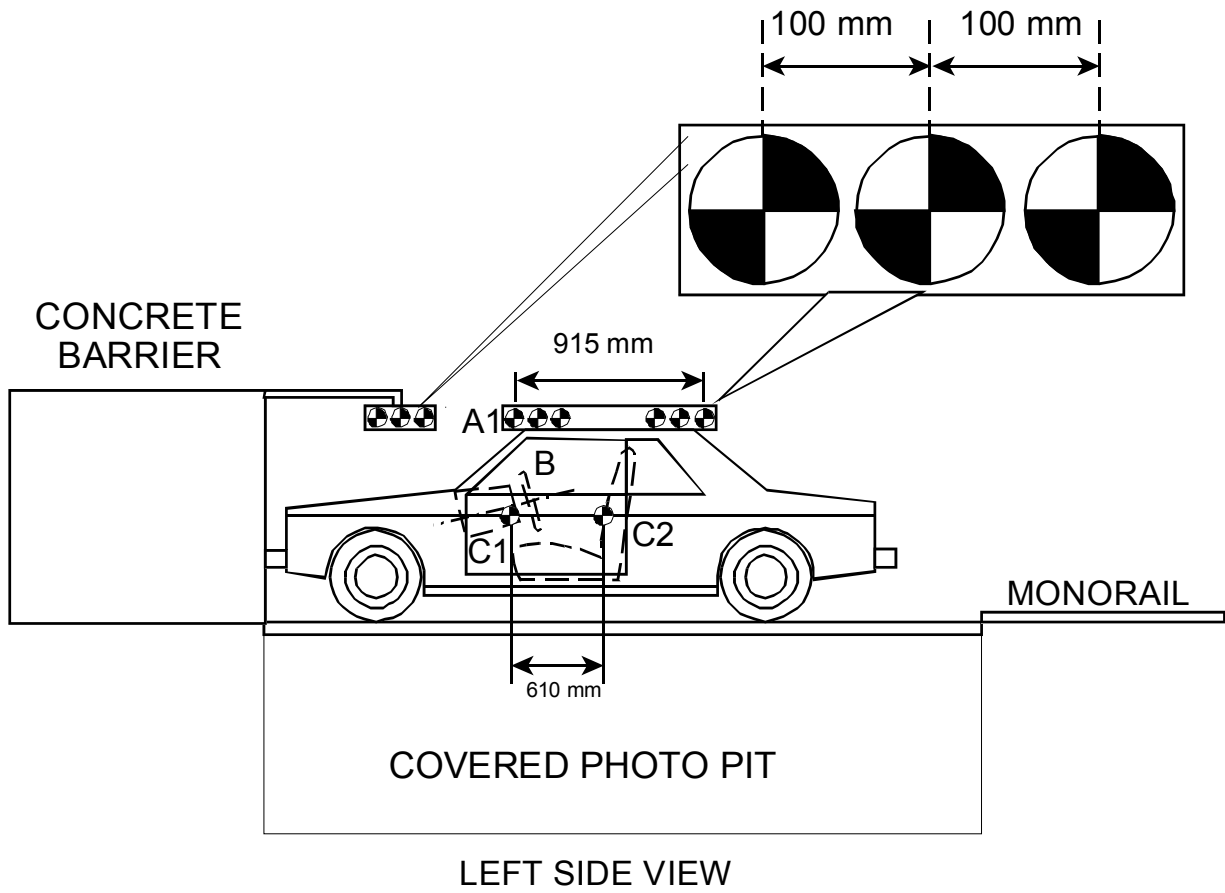
Signature:

Nick Kosinski

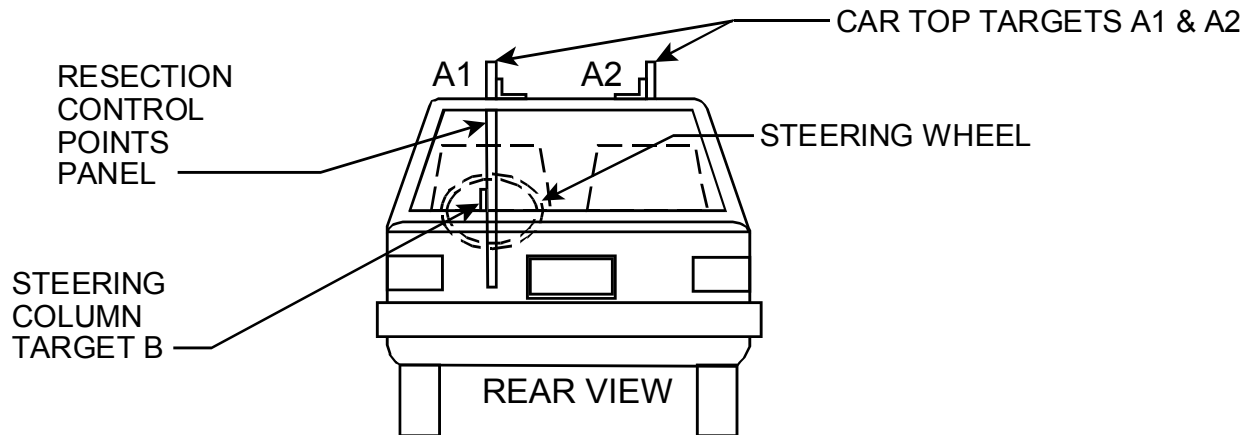
Date:

10/20/05

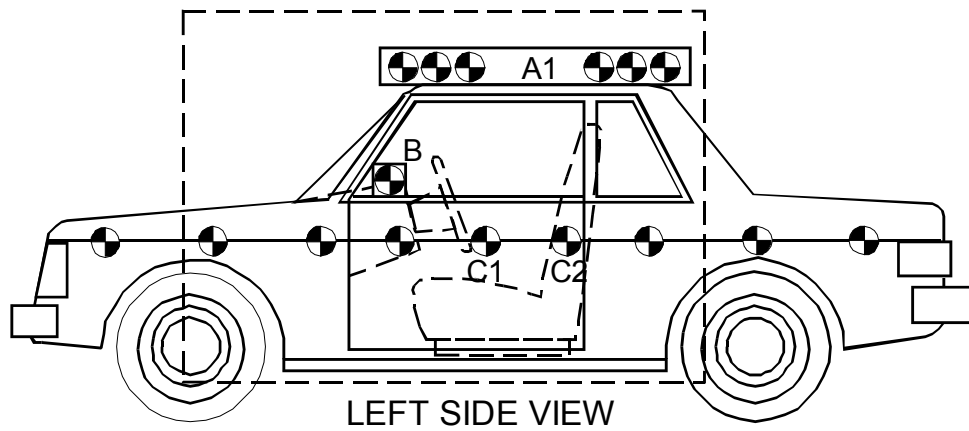
REFERENCE PHOTO TARGETS



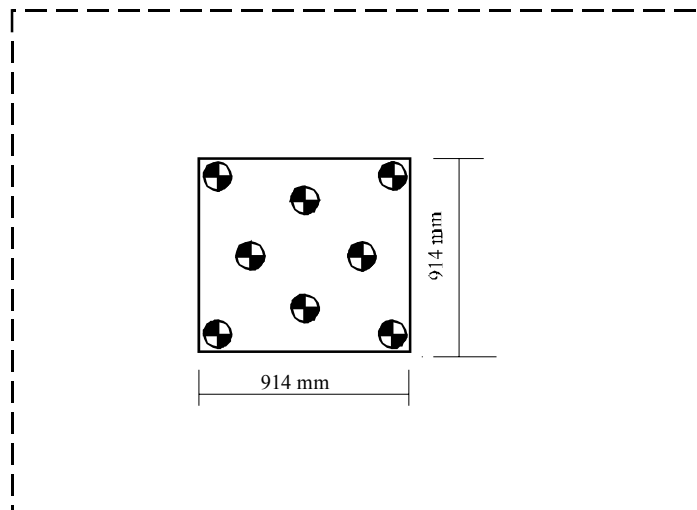
RESECTION PANEL TARGETING ALIGNMENT



TEST RUN STEERING COLUMN CAMERA VIEW OF TYPICAL TIME ZERO VEHICLE POSITION



PRE-RUN STEERING COLUMN HIGH SPEED CAMERA VIEW



LEFT SIDE VIEW

DATA SHEET 33
CAMERA LOCATIONS

Test Vehicle: 2006 Toyota Corolla
Test Program: FMVSS 208 Compliance

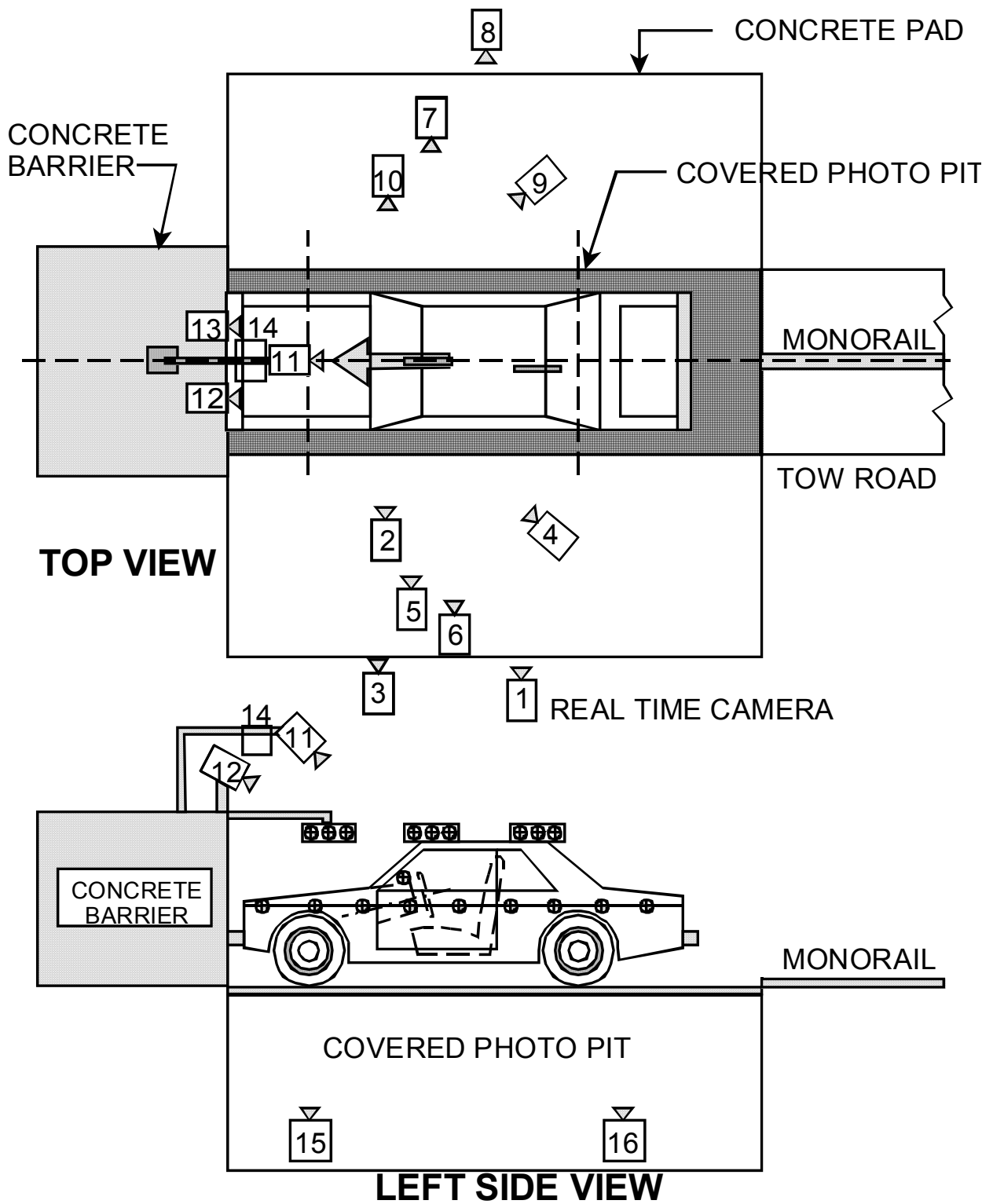
NHTSA No.: C65102
Test Date: 10/20/05
Time: 12:16 pm

CAMERA NO.	VIEW	CAMERA POSITIONS (mm) *			LENS (mm)	SPEED (fps)
		X	Y	Z		
1	Real Time Left Side View				13	24
2	Left Side View (Barrier face to front seat backs)	1000	-5340	1240	24	1000
3	Left Side View (Driver)	1510	-6195	1520	35	1000
4	Left Side View (B-post aimed toward center of steering wheel)	6825	-4915	2075	50	1000
5	Left Side View (Steering Column)	1305	-5370	1470	24	1000
6	Left Side View (Steering Column)	1310	-5330	1020	24	1000
7	Right Side View (Overall)	1945	6445	1525	19	1000
8	Right Side View (Passenger)	1265	5860	1495	35	1000
9	Right Side View (Angle)	6640	4790	2125	50	1000
10	Right Side View (Front door)	925	5080	1285	24	1000
11	Front View Windshield	-285	0	2370	12.5	1000
12	Front View Driver	180	-405	2080	12.5	1000
13	Front View Passenger	160	490	2060	12.5	1000
14	Overhead Barrier Impact View	815	0	5050	19	1000
15	Pit Camera Engine View	1065	0	-3150	24	1000
16	Pit Camera Fuel Tank View	3085	0	-3150	24	1000

***COORDINATES:**

+X - forward of impact plane
+Y - right of monorail centerline
+Z - above ground level

CAMERA POSITIONS FOR FMVSS 208



DATA SHEET 34
APPENDIX F
DUMMY POSITIONING PROCEDURES
FOR DRIVER TEST DUMMY CONFORMING TO SUBPART E OF PART 572

Test Vehicle: 2006 Toyota Corolla
 Test Program: FMVSS 208 Compliance
 Test Technician: Joe Fleck

NHTSA No.: C65102
 Test Date: 10/20/05

IMPACT ANGLE:	Zero Degrees		
BELTED DUMMIES (YES/NO):	No		
TEST SPEED:	<u>X</u> 32 to 40 kmph	<u> </u> 0 to 48 kmph	<u> </u> 0 to 56 kmph
DRIVER DUMMY:	<u> </u> 5 th Female	<u>X</u> 50 th Male	
PASSENGER DUMMY:	<u> </u> 5 th Female	<u>X</u> 50 th Male	

- X 1. Position the seat's adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S8.1.3)
X N/A – No lumbar adjustment
- X 2. Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S20.1.8.2)
X N/A – No additional support adjustment
- X 3. If the seat cushion adjusts fore and aft, independent of the seat back, set this adjustment to the full rearward position. (S20.1.9.3)
X N/A – No independent fore-aft seat cushion adjustment
- X 4. Use the seat markings determined during the completion of Data Sheet 14 to set the mid-fore-aft position, full down height position and the seat cushion angle. (S8.1.2)
- X 5. The seat back angle, if adjustable, is set at the manufacturer's nominal design riding position for a 50th percentile adult male in the manner specified by the manufacturer. (S4.5.4.1 (b) and S8.1.3)
 N/A – No seat back angle adjustment
 Manufacturer's design seat back angle 88.3° on HRP
 Tested seat back angle 88.4° on HRP
- X 6. If adjustable, set the head restraint at the full up and full forward position. Any adjustment of the head restraint shall be used to position it full forward. For example, if it rotates, rotate it such that the head restraint extends as far forward as possible. (S8.1.3)
 N/A – No head restraint adjustment
- X 7. Place any adjustable seat belt anchorages at the vehicle manufacturer's nominal design position for a 50th percentile adult male occupant (S8.1.3)
 N/A – No adjustable upper seat belt anchorage
 Manufacturer's specified anchorage position. 2nd Down
 Tested anchorage position 2nd Down (Unbelted Test)
- X 8. Place the adjustable accelerator pedal in the full forward position.
X N/A – the accelerator pedal is not adjustable.

- ☒ 9. Set the steering wheel hub at the geometric center of the full range of driving positions including any telescoping positions as determined in data sheet 14.
- ☒ 10. Place the dummy in the seat such that the midsagittal plane is coincident with the longitudinal seat cushion markings as determined in item 1.18 of Data Sheet 14 and the upper torso rests against the seat back. (S10.4.1.1 & S10.4.1.2)
- ☒ 11. Rest the thighs on the seat cushion. (S10.5)
- ☒ 12. Position the H-point of the dummy within 0.5 inch of the vertical dimension and 0.5 inch of the horizontal dimension of a point 0.25 inch below the H-point determined by using the equipment and procedures specified in SAE J826 (APR 1980). (S10.4.2.1) Then measure the pelvic angle with respect to the horizontal using the pelvic angle gage.

Adjust the dummy position until these three measurements are within the specifications.
(S10.4.2.1 and S10.4.2.2)

.204 horizontal inches from the point 0.25 below the determined H-point (0.5 inch max.)
(S10.4.2.1)

.042 vertical inches from the point 0.25 below the determined H-point (0.5 inch max.)
(S10.4.2.1)

24.6° pelvic angle (20° to 25°)

- ☒ 13. Is the head level within $\pm 0.5^\circ$? (S10.1)

☒ Yes, go to 14

☐ No, go to 13.1

- ☐ 13.1 Adjust the position of the H-point. (S10.1)

- ☐ 13.2 Is the head level within $\pm 0.5^\circ$? (S10.1)

☐ Yes, record the following, then go to 15. ☐ No, go to 13.3

 horizontal inches from the point 0.25 below the determined H-point (0.5 inch max.)
(S10.4.2.1)

 vertical inches from the point 0.25 below the determined H-point (0.5 inch max.)
(S10.4.2.1)

 pelvic angle (20° to 25°) (S10.4.2.2)

- ☐ 13.3 Adjust the pelvic angle. (S10.1)

- ☐ 13.4 Is the head level within $\pm 0.5^\circ$? (S10.1)

☐ Yes, record the following, then go to 14. ☐ No, go to 13.5

 horizontal inches from the point 0.25 below the determined H-point (0.5 inch max.)
(S10.4.2.1)

 vertical inches from the point 0.25 below the determined H-point (0.5 inch max.)
(S10.4.2.1)

 pelvic angle (20° to 25°) (S10.4.2.2)

- ☐ 13.5 Adjust the neck bracket of the dummy the minimum amount necessary from the non-adjusted "0" setting until the head is level within $\pm 0.5^\circ$. (S10.1)
Record the following, then go to 14
☐ horizontal inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)
☐ vertical inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)
☐ pelvic angle (20° to 25°) (S10.4.2.2)
- ☒ 14. Set the distance between the outboard knee clevis flange surfaces at 10.6 inches.
10.6" measured distance (10.6 inches) (S10.5)
- ☒ 15. Can the right foot be placed on the accelerator?
☒ Yes, go to 15.1 and skip 15.2
☐ No, go to 15.2
- ☒ 15.1. To the extent practicable keep the right thigh and the leg in a vertical plane (S10.5) while resting the foot on the undepressed accelerator pedal with the rearmost point of the heel on the floor pan in the plane of the pedal. (S10.6.1.1)
- ☐ 15.2 Initially set the foot perpendicular to the leg and then place it as far forward as possible in the direction of the pedal centerline with the rearmost point of the heel resting on the floor pan. (S10.6.1.1)
- ☐ 15.2.1 Move the adjustable pedal to its most rearward position or until the right foot is flat on the pedal, whichever occurs first. (S10.6.1.1)
☐ N/A – the accelerator pedal is not adjustable
- ☒ 16. Does the vehicle have a foot rest?
☒ Yes, go to 16.1
☐ No, go to 16.2
- ☒ 16.1 With the left thigh and leg in a vertical plane, place the foot on the foot rest with the heel resting on the floor pan. (S10.6.1.2)
- ☒ 16.1.1 Is the left foot elevated above the right foot?
☐ Yes, go to 16.1.2 and position the foot off the foot rest
☒ No, go to 17
- ☐ 16.1.2 Check the ONLY one of the following that applies
- ☐ The foot reaches the toeboard without adjusting the foot or leg. To the extent practicable keep the left thigh and the leg in a vertical longitudinal plane (S10.5) and place the foot on the toeboard, skip 16.1.3 (S10.6.1.2)
- ☐ The foot reaches the toeboard but contacts the brake or clutch pedal and must be rotated to avoid pedal contact. To the extent practicable keep the left thigh and the leg in a vertical longitudinal plane (S10.5) and place the foot on the toeboard. The foot was rotated about the leg to avoid pedal contact, skip 16.1.3 (S10.6.1.2)

- ☐ The foot reaches the toeboard but contacts the brake or clutch pedal and the foot and leg must be rotated to avoid pedal contact. To the extent practicable keep the left thigh and the leg in a vertical longitudinal plane (S10.5) and place the foot on the toeboard. The foot was rotated about the leg and the leg was rotated outboard about the hip the minimum distance necessary to avoid pedal contact, skip 16.1.3 (S10.6.1.2)
- ☐ N/A – the foot does not reach the toeboard, go to 16.1.3
- ☐ 16.1.3 Check the ONLY one of the following that applies
- ☐ The foot did not contact the brake or clutch pedal. To the extent practicable keep the left thigh and the leg in a vertical longitudinal plane (S10.5). Set the foot perpendicular to the leg and place it as far forward as possible with the heel resting on the floor pan. (S10.6.1.2)
- ☐ The foot did contact the brake or clutch pedal and the foot was rotated to avoid contact. To the extent practicable keep the left thigh and the leg in a vertical longitudinal plane (S10.5). Set the foot perpendicular to the leg and place it as far forward as possible with the heel resting on the floor pan and rotate the foot the minimum amount to avoid pedal contact. (S10.6.1.2)
- ☐ The foot did contact the brake or clutch pedal and the foot was rotated about the leg and the leg was rotated outboard about the hip the minimum distance necessary to avoid pedal contact. Set the foot perpendicular to the leg and place it as far forward as possible with the heel resting on the floor pan and rotate the foot about the leg and the thigh and leg outboard about the hip the minimum distance necessary to avoid pedal contact. (S10.6.1.2)
- ☒ 17. Place the right upper arm adjacent to the torso with the centerline as close to a vertical plane as possible. (S10.2.1)
- ☒ 18. Is the driver seat belt used for this test?
- ☐ Yes, continue
- ☒ No, go to 19
- ☐ 18.1 Fasten the seat belt around the dummy.
- ☐ 18.2 Remove all slack from the lap belt portion. (S10.9)
- ☐ 18.3 Pull the upper torso webbing out of the retractor and allow it to retract; repeat this four times. (S10.9)
- ☐ 18.4 Apply a 2 to 4 pound tension load to the lap belt. (S10.9)
- ☐ pound load applied
- ☐ 18.5 Is the belt system equipped with a tension-relieving device?
- ☐ Yes, continue
- ☐ No, go to 19

APPENDIX F
DUMMY POSITIONING PROCEDURES FOR PASSENGER TEST DUMMY CONFORMING
TO SUBPART E OF PART 572

Test Vehicle: 2006 Toyota Corolla
 Test Program: FMVSS 208 Compliance
 Test Technician: Eric Peschman

NHTSA No.: C65102
 Test Date: 10/20/05

IMPACT ANGLE:	Zero Degrees		
BELTED DUMMIES (YES/NO):	No		
TEST SPEED:	<u>X</u> 32 to 40 kmph	<u> </u> 0 to 48 kmph	<u> </u> 0 to 56 kmph
DRIVER DUMMY:	<u> </u> 5 th Female	<u> </u> 50 th Male	<u>X</u> 50 th Male
PASSENGER DUMMY:	<u> </u> 5 th Female	<u> </u> 50 th Male	<u>X</u> 50 th Male

- X 1. The seat is a bench seat for which the adjustments have already been made for the driver and there are no independent adjustments that can be made for the passenger. Go to 7.
X N/A- the passenger seat adjusts independently of the driver seat.
- X 2. Position the seat's adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S8.1.3)
X N/A – No lumbar adjustment
- X 3. Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S20.1.8.2)
X N/A – No additional support adjustment
- X 4. If the seat cushion adjusts fore and aft, independent of the seat back, set this adjustment to the full rearward position. (S20.1.9.3)
X N/A – No independent fore-aft seat cushion adjustment
- X 5. Use the seat markings determined during the completion of Data Sheet 14 to set the mid-fore-aft position, full down height position and the seat cushion angle. (S8.1.2)
- X 6. The seat back angle, if adjustable, is set at the manufacturer's nominal design riding position for a 50th percentile adult male in the manner specified by the manufacturer. (S4.5.4.1 (b) and S8.1.3)
 N/A – No seat back angle adjustment
 Manufacturer's design seat back angle 89.0° on HRP
 Tested seat back angle 89.2° on HRP
- X 7. If adjustable, set the head restraint at the full up and full forward position. Any adjustment of the head restraint shall be used to position it full forward. For example, if it rotates, rotate it such that the head restraint extends as far forward as possible. (S8.1.3)
 N/A – No head restraint adjustment

- X 8. Place any adjustable seat belt anchorages at the vehicle manufacturer's nominal design position for a 50th percentile adult male occupant (S8.1.3)
___ N/A – No adjustable upper seat belt anchorage
Manufacturer's specified anchorage position. 2nd Down
Tested anchorage position 2nd Down (Unbelted Test)
___ N/A - the seat does not have a fore-aft adjustment
- X 9. Place the dummy in the seat such that the midsagittal plane is coincident with the longitudinal seat cushion markings as determined in item 2.19 of Data Sheet 14 and the upper torso rests against the seat back. (S10.4.1.1 & S10.4.1.2)
- X 10. Rest the thighs on the seat cushion. (S10.5)
- X 11. Position the H-point of the dummy within 0.5 inch of the vertical dimension and 0.5 inch of the horizontal dimension of a point 0.25 inch below the H-point determined by using the equipment and procedures specified in SAE J826 (APR 1980). (S10.4.2.1) Then measure the pelvic angle with respect to the horizontal using the pelvic angle gage.
- Adjust the dummy position until these three measurements are within the specifications.
(S10.4.2.1 and S10.4.2.2)
.110 horizontal inches from the point 0.25 below the determined H-point (0.5 inch max.)
(S10.4.2.1)
.160 vertical inches from the point 0.25 below the determined H-point (0.5 inch max.)
(S10.4.2.1)
23.8° pelvic angle (20° to 25°)
- X 12. Is the head level within $\pm 0.5^\circ$? (S10.1)
___ Yes, go to 13
X No, go to 12.1
- X 12.1 Adjust the position of the H-point. (S10.1 and S10.4.2.1)
- X 12.2 Is the head level within $\pm 0.5^\circ$? (S10.1)
___ Yes, record the following, then go to 13. X No, go to 12.3
___ horizontal inches from the point 0.25 below the determined H-point (0.5 inch max.)
(S10.4.2.1)
___ vertical inches from the point 0.25 below the determined H-point (0.5 inch max.)
(S10.4.2.1)
___ pelvic angle (20° to 25°) (S10.4.2.2)
- X 12.3 Adjust the pelvic angle. (S10.1)
- X 12.4 Is the head level within $\pm 0.5^\circ$? (S10.1)
___ Yes, record the following, then go to 13. X No, go to 12.5
___ horizontal inches from the point 0.25 below the determined H-point (0.5 inch max.)
(S10.4.2.1)
___ vertical inches from the point 0.25 below the determined H-point (0.5 inch max.)
(S10.4.2.1)
___ pelvic angle (20° to 25°) (S10.4.2.2)

- ☒ 12.5 Adjust the neck bracket of the dummy the minimum amount necessary from the non-adjusted "0" setting until the head is level within $\pm 0.5^\circ$. (S10.1)
Record the following, then go to 13 (The neck bracket was moved four notches)
.110 horizontal inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)
.070 vertical inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)
21.2 pelvic angle (20° to 25°) (S10.4.2.2)
- ☒ 13. Set the distance between the outboard knee clevis flange surfaces at 10.6 inches.
10.6" measured distance (10.6 inches) (S10.5)
- ☒ 14. Check the only one of the following that applies:
- ☒ To the extent practicable keep the left thigh and leg in a vertical plane and the right thigh and leg in a vertical plane, place the feet on the toeboard with the heels resting on the floor pan as close as possible to the intersection of the floor pan and toeboard.
- ☐ The feet cannot be placed flat on the toeboard. To the extent practicable keep the left thigh and leg in a vertical plane and the right thigh and leg in a vertical plane, set the feet perpendicular to the legs and place them as far forward as possible with the heels resting on the floor pan.
- ☐ The vehicle has a wheelhouse projection. To the extent practicable keep the left thigh and leg in a vertical plane and the right thigh and leg in a vertical plane, set the feet perpendicular to the legs and place them as far forward as possible with the heels resting on the floor pan. Do not set the feet on the wheelhouse projection.
- ☐ The vehicle has a wheelhouse projection and the feet cannot be placed on the toeboard. To the extent practicable keep the left thigh and leg in a vertical plane and the right thigh and leg in a vertical plane, set the feet perpendicular to the legs and place them as far forward as possible with the heel resting on the floor pan. . Do not set the feet on the wheelhouse projection.
- ☒ 15. Place the left upper arm in contact with the seat back and side of the torso. (S10.2.2)
- ☒ 16. Is the passenger seat belt used for this test?
☐ Yes, continue
☒ No, go to 17
- ☐ 16.1 Fasten the seat belt around the dummy.
- ☐ 16.2 Remove all slack from the lap belt portion. (S10.9)
- ☐ 16.3 Pull the upper torso webbing out of the retractor and allow it to retract; repeat this four times. (S10.9)
- ☐ 16.4 Apply a 2 to 4 pound tension load to the lap belt. (S10.9)
☐ pound load applied

16.5 Is the belt system equipped with a tension relieving device?

 Yes, continue

 No, go to 17

 16.6 Introduce the maximum amount of slack into the upper torso bet that is recommended by the vehicle manufacturer in the vehicle owner's manual. (S10.9). Go to 17.


X 17. Place the right upper arm in contact with the seat back and side of the torso. (S10.2.2)

X 18. Place the left hand palm in contact with the outside of the left thigh and the little finger in contact with the seat cushion. (S10.3.2)

X 19. Place the right hand palm in contact with the outside of the right thigh and the little finger in contact with the seat cushion. (S10.3.2)

REMARKS:

I certify that I have read and performed each instruction.

Signature: 

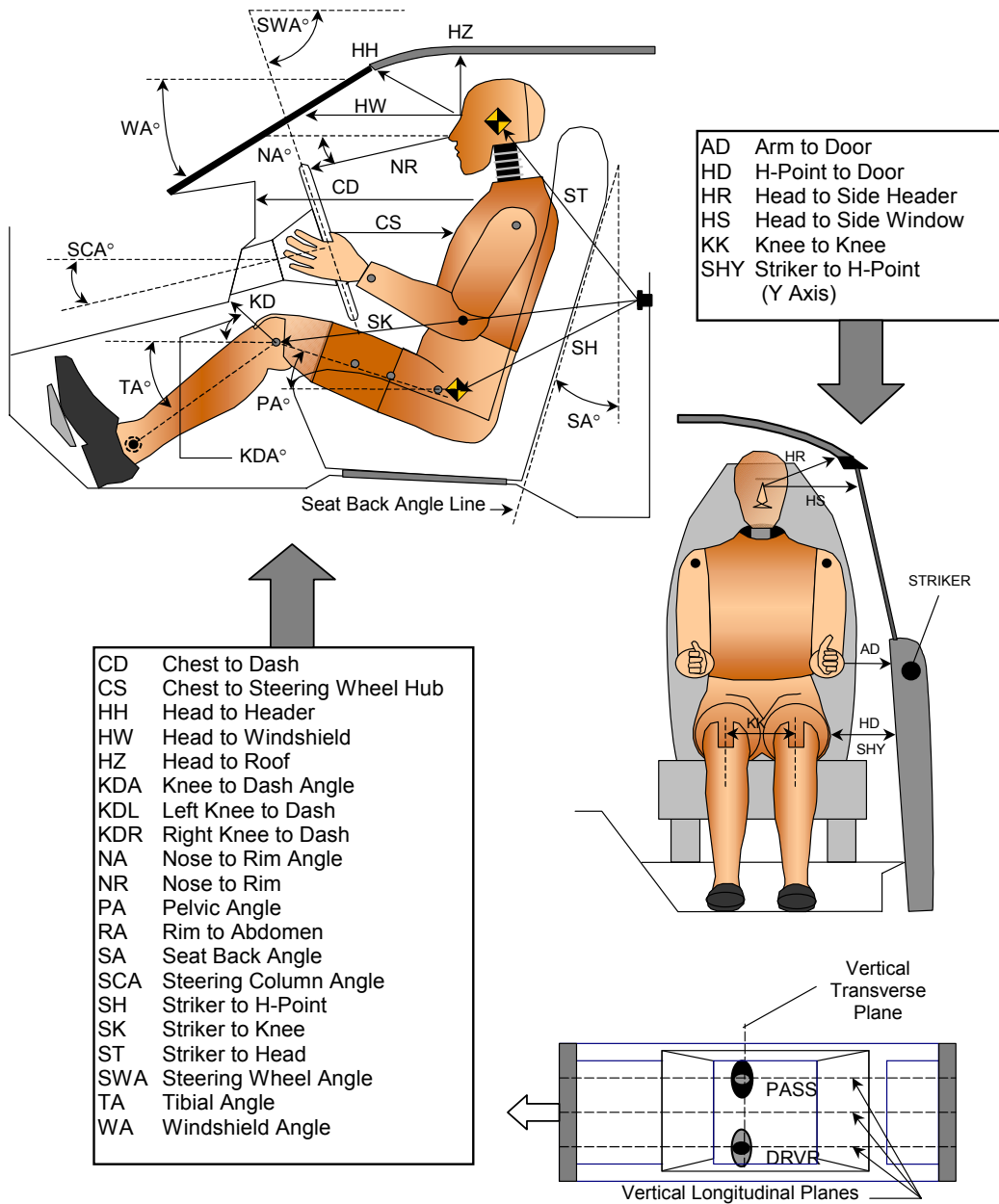
Date: 10/20/05

DATA SHEET 35 **DUMMY MEASUREMENTS**

Test Vehicle: 2006 Toyota Corolla
Test Program: FMVSS 208 Compliance
Test Technician: Eric Peschman

NHTSA No.: C65102
Test Date: 10/20/05

DUMMY MEASUREMENTS FOR FRONT SEAT OCCUPANTS



DATA SHEET 35
DUMMY MEASUREMENTS

Test Vehicle: 2006 Toyota Corolla
Test Program: FMVSS 208 Compliance
Test Technician: Eric Peschman

NHTSA No.: C65102
Test Date: 10/20/05

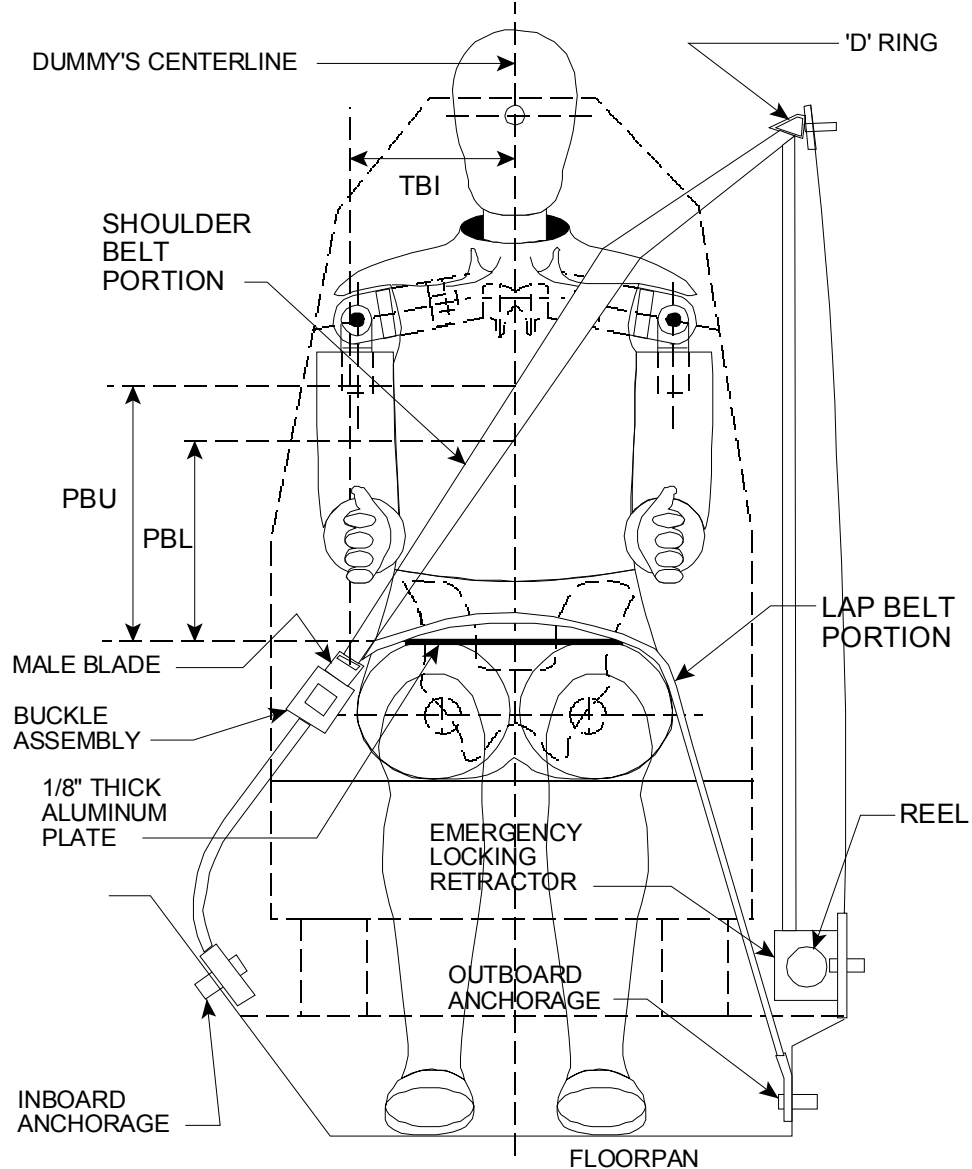
TEST DUMMY POSITION MEASUREMENTS

Code	Measurement Description	Driver SN 403		Passenger SN 401	
		Length (mm)	Angle (°)	Length (mm)	Angle (°)
WA	Windshield Angle		27.0		
SWA	Steering Wheel Angle		63.6		
SCA	Steering Column Angle		28.5		
SA	Seat Back Angle (On Headrest)		1.6		0.8
HZ	Head to Roof (Z)	211		156	
HH	Head to Header	326	23.4	256	23.2
HW	Head to Windshield	631	0.0	538	0.0
HR	Head to Side Header (Y)	214		193	
NR	Nose to Rim	429	12.1		
CD	Chest to Dash	538		502	
CS	Chest to Steering Hub	332	9.1		
RA	Rim to Abdomen	191	0.0		
KDL	Left Knee to Dash	132	20.5	88	
KDR	Right Knee to Dash	128		125	18.3
PA	Pelvic Angle		24.6		21.2
TA	Tibia Angle		56.4		54.4
KK	Knee to Knee (Y)	330 *		310 **	
SK	Striker to Knee	594	98.0	612	104.2
ST	Striker to Head	394	13.3	463	12.2
SH	Striker to H-Point	308	136.3	272	136.1
SHY	Striker to H-Point (Y)	254		254	
HS	Head to Side Window	306		297	
HD	H-Point to Door (Y)	152		148	
AD	Arm to Door (Y)	121		98	
AA	Ankle to Ankle	305		232	

* Center to center = 268

** Center to center = 250

SEAT BELT POSITIONING DATA



FRONT VIEW OF DUMMY

SEAT BELT POSITIONING MEASUREMENTS

Measurement Description	Units	Driver	Passenger
PBU - Top surface of reference to belt upper edge	mm	N/A	N/A
PBL - To surface of reference to belt lower edge	mm	N/A	N/A

DATA SHEET 36

CRASH TEST

Test Vehicle: 2006 Toyota Corolla
 Test Program: FMVSS 208 Compliance
 Test Technician: Eric Peschman

NHTSA No.: C65102
 Test Date: 10/20/05

IMPACT ANGLE:	Zero Degrees		
BELTED DUMMIES (YES/NO):	No		
TEST SPEED:	<u>X</u> 32 to 40 kmph	<u> </u> 0 to 48 kmph	<u> </u> 0 to 56 kmph
DRIVER DUMMY:	<u> </u> 5 th Female	<u>X</u> 50 th Male	
PASSENGER DUMMY:	<u> </u> 5 th Female	<u>X</u> 50 th Male	

- | | |
|----------|---|
| <u>X</u> | 1. Vehicle underbody painted |
| <u>X</u> | 2. The speed measuring devices are in place and functioning. |
| <u>X</u> | 3. The speed measuring devices are <u>1.0</u> m from the barrier (spec. 1.5m) and <u>30</u> cm from the barrier (spec. is 30 cm) |
| <u>X</u> | 4. Convertible top is in the closed position. |
| <u>X</u> | <u>X</u> N/A, not a convertible |
| <u>X</u> | 5. Instrumentation and wires are placed so the motion of the dummies during impact is not affected. |
| <u>X</u> | 6. Tires inflated to pressure on tire placard or if it does not have a tire placard because it is not a passenger car, then inflated to the tire pressure specified in the owner information. |

<u>210 kpa</u> front left tire	<u>210 kpa</u> specified on tire placard or in owner information
<u>210 kpa</u> front right tire	<u>210 kpa</u> specified on tire placard or in owner information
<u>210 kpa</u> rear left tire	<u>210 kpa</u> specified on tire placard or in owner information
<u>210 kpa</u> rear right tire	<u>210 kpa</u> specified on tire placard or in owner information

- | | |
|----------|---|
| <u>X</u> | 7. Time zero contacts on barrier in place. |
| <u>X</u> | 8. Pre test zero and shunt calibration adjustments performed and recorded |
| <u>X</u> | 9. Dummy temperature meets requirements of section 12.2 of the test procedure. |
| <u>X</u> | 10. Vehicle hood closed and latched |
| <u>X</u> | 11. Transmission placed in neutral |
| <u>X</u> | 12. Parking brake off |
| <u>X</u> | 13. Ignition in the ON position |
| <u>X</u> | 14. Doors closed and latched but not locked |
| <u>X</u> | 15. Posttest zero and shunt calibration checks performed and recorded |
| <u>X</u> | 16. Actual test speed <u>39.9</u> kmph |
| <u>X</u> | 17. Vehicle rebound from the barrier <u>172</u> cm |
| <u>X</u> | 18. Describe whether the doors open after the test and what method is used to open the doors. |
| <u>X</u> | Left Front Door: Door remained closed and latched; Door opened without tools |
| <u>X</u> | Right Front Door: Door remained closed and latched; Door opened without tools |
| <u>X</u> | Left Rear Door: Door remained closed and latched; Door opened without tools |
| <u>X</u> | Right Rear Door: Door remained closed and latched; Door opened without tools |

- ☒ 19. Describe the contact points of the dummy with the interior of the vehicle.
- | | |
|-------------------------------------|---|
| <input checked="" type="checkbox"/> | Driver Dummy: Head to Air Bag, Visor, Windshield, and Headrest; Chest to Air Bag; Knees to Knee Bolster |
| <input checked="" type="checkbox"/> | Passenger Dummy: Head to Air Bag, Visor, and Headrest; Chest to Air Bag; Knees to Glove Box |

REMARKS:

I certify that I have read and performed each instruction.

Signature: 

Date: 10/20/05

DATA SHEET NO. 38

ACCIDENT INVESTIGATION DIVISION DATA

Test Vehicle: 2006 Toyota Corolla
 Test Program: FMVSS 208 Compliance
 Test Technician: Nick Kosinski

NHTSA No.: C65102
 Test Date: 10/20/05

IMPACT ANGLE:	Zero Degrees		
BELTED DUMMIES (YES/NO):	No		
TEST SPEED:	<input checked="" type="checkbox"/> 32 to 40 kmph	<input type="checkbox"/> 0 to 48 kmph	<input type="checkbox"/> 0 to 56 kmph
DRIVER DUMMY:	<input type="checkbox"/> 5 th Female	<input checked="" type="checkbox"/> 50 th Male	
PASSENGER DUMMY:	<input type="checkbox"/> 5 th Female	<input checked="" type="checkbox"/> 50 th Male	

Vehicle Year/Make/Model/Body Style:	2006 Toyota Corolla Passenger Car
VIN:	JTDBR32E560058140
Wheelbase:	2602 mm
Build Date:	08/05
Vehicle Size Category:	2
Test Weight:	1354.5 kg
Front Overhang:	938 mm
Overall Width:	1699 mm
Overall Length Center:	4505 mm

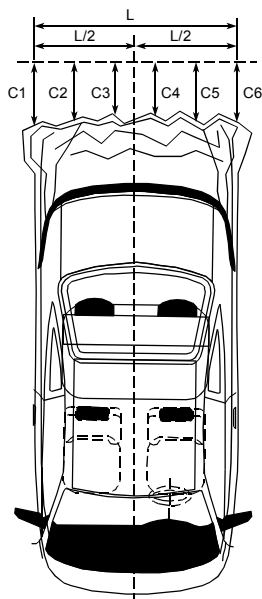
Accelerometer Data	
Location:	As per measurements on Data Sheet 31
Linearity:	>99.9%

Integration Algorithm:	Trapezoidal
Vehicle Impact Speed:	39.9 kmph
Time of Separation:	95.2 ms
Velocity Change:	42.8 kmph

CRUSH PROFILE

Collision Deformation Classification: 12FDEW6
 Midpoint of Damage: Vehicle Longitudinal Centerline
 Damage Region Length (mm): 1534
 Impact Mode: Frontal Barrier

No.	Measurement Description	Units	Pre-Test	Post-Test	Difference
C1	Crush zone 1 at left side	mm	4315	4141	174
C2	Crush zone 2 at left side	mm	4431	4148	283
C3	Crush zone 3 at left side	mm	4486	4132	354
C4	Crush zone 4 at right side	mm	4488	4103	385
C5	Crush zone 5 at right side	mm	4432	4149	283
C6	Crush zone 6 at right side	mm	4316	4150	166



REMARKS:

I certify that I have read and performed each instruction.

Signature: *Nick Kosinski*

Date: 10/20/05

DATA SHEET 39
WINDSHIELD MOUNTING (FMVSS 212)

Test Vehicle: 2006 Toyota Corolla
 Test Program: FMVSS 208 Compliance
 Test Technician: Nick Kosinski

NHTSA No.: C65102
 Test Date: 10/20/05

IMPACT ANGLE:	Zero Degrees		
BELTED DUMMIES (YES/NO):	No		
TEST SPEED:	<u>X</u> 32 to 40 kmph	<u> </u> 0 to 48 kmph	<u> </u> 0 to 56 kmph
DRIVER DUMMY:	<u> </u> 5 th Female	<u>X</u> 50 th Male	
PASSENGER DUMMY:	<u> </u> 5 th Female	<u>X</u> 50 th Male	

1. Pre-Crash
 - ☒ 1.1 Describe from visual inspection how the windshield is mounted and describe any trim material.
 Retained with glue
 Rubber trim
 - ☒ 1.2 Mark the longitudinal centerline of the windshield
 - ☒ 1.3 Measure pre-crash A, B, and C for the left side and record in the chart below.
 - ☒ 1.4 Measure pre-crash C, D, and E for the right side and record in the chart below.
 - ☒ 1.5 Measure from the edge of the retainer or molding to the edge of the windshield.
 Dimension G (mm): 17 mm
2. Post Crash
 - ☒ 2.1 Can a single thickness of copier type paper (as small a piece as necessary) slide between the windshield and the vehicle body?

☒ No – Pass. Skip to the table of measurements, complete it by repeating the pre-crash measurements in the post crash column, and calculate the retention percentage, which will be 100%.
☐ Yes, go to 2.2
 - ☐ 2.2 Visibly mark the beginning and end of the portions of the periphery where the paper slides between the windshield and the vehicle body.
 - ☐ 2.3 Measure and record post-crash A, B, C, D, E, and F such that the measurements do not include any of the parts of the windshield where the paper slides between the windshield and the vehicle body.
 - ☐ 2.4 Calculate and record the percent retention for the right and left side of the windshield.
 - ☐ 2.5 Is total right side percent retention less than 75%?

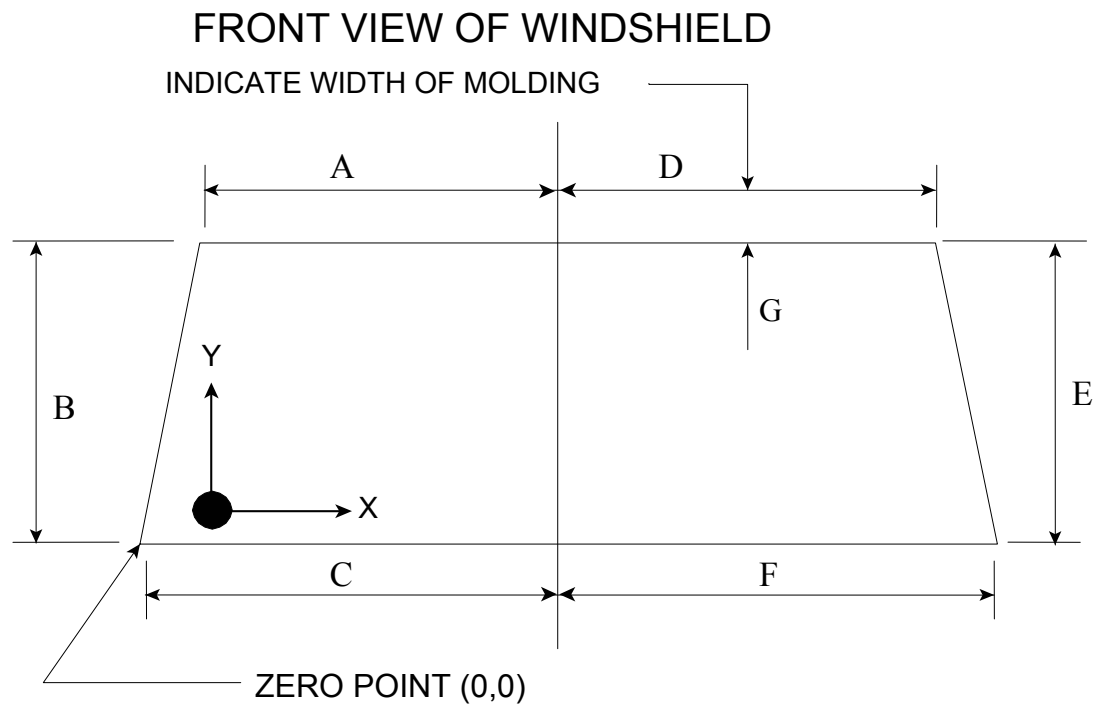
☐ Yes, Fail
☐ No, Pass
 - ☐ 2.6 Is total left side percent retention less than 75%?

☐ Yes, Fail
☐ No, Pass

WINDSHIELD RETENTION MEASUREMENTS

	Dimension	Pre-Crash (mm)	Post-Crash (mm)	Percent Retention (Post-Test ÷ Pre-Crash)
Left Side	A	540	540	100%
	B	829	829	100%
	C	693	693	100%
	Total	2062	2062	100%
Right Side	D	540	540	100%
	E	829	829	100%
	F	693	693	100%
	Total	2062	2062	100%

Indicate area of mounting failure. NONE



REMARKS:

I certify that I have read and performed each instruction.

Signature: *Tick Kosinski*

Date: 10/20/05

DATA SHEET 40
WINDSHIELD ZONE INTRUSION (FMVSS 219)

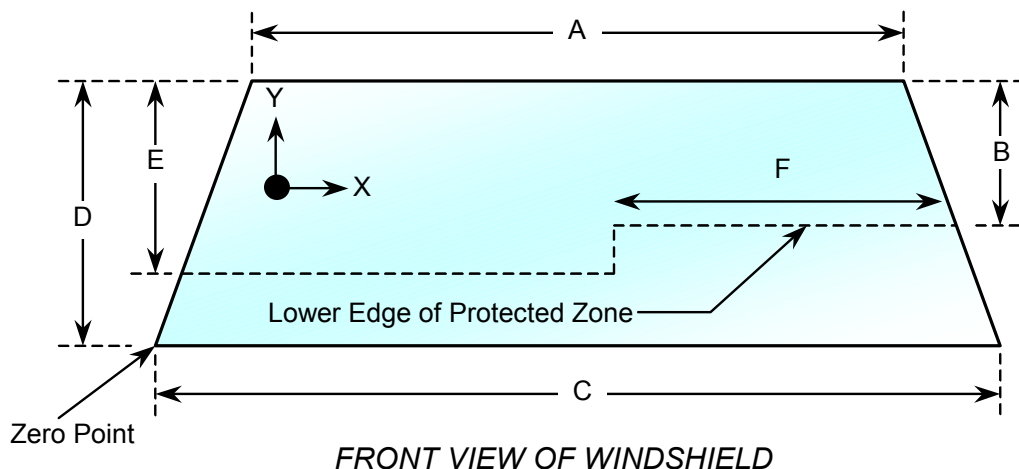
Test Vehicle: 2006 Toyota Corolla
 Test Program: FMVSS 208 Compliance
 Test Technician: Nick Kosinski

NHTSA No.: C65102
 Test Date: 10/20/05

IMPACT ANGLE:	Zero Degrees		
BELTED DUMMIES (YES/NO):	No		
TEST SPEED:	<input checked="" type="checkbox"/> 32 to 40 kmph	<input type="checkbox"/> 0 to 48 kmph	<input type="checkbox"/> 0 to 56 kmph
DRIVER DUMMY:	<input type="checkbox"/> 5 th Female	<input checked="" type="checkbox"/> 50 th Male	
PASSENGER DUMMY:	<input type="checkbox"/> 5 th Female	<input checked="" type="checkbox"/> 50 th Male	

- ☒ 1. Place a 165 mm diameter rigid sphere, with a mass of 6.8 kg on the instrument panel so that it is simultaneously touching the instrument panel and the windshield. (571.219 S6.1(a))
- ☒ 2. Roll the sphere from one side of the windshield to the other while marking on the windshield where the sphere contacts the windshield. (571.219 S6.1(b))
- ☒ 3. From the outermost contactable points on the windshield draw a horizontal line to the edges of the windshield. (571.219 S6.1(b))
- ☒ 4. Draw a line on the inner surface of the windshield that is 13 mm below the line determined in items 2 and 3
- ☒ 5. After the crash test, record any points where a part of the exterior of the vehicle has marked, penetrated, or broken the windshield.

Provide all dimensions necessary to reproduce the protected area.



WINDSHIELD DIMENSIONS

Item	Units	Value
A	mm	1080
B	mm	548
C	mm	1386
D	mm	829
E	mm	527
F	mm	503

AREA OF PROTECTED ZONE FAILURES:

- B. Provide coordinates of the area that the protected zone was penetrated more than 0.25 inches by a vehicle component other than one which is normally in contact with the windshield.

X	Y
NONE	

- C. Provide coordinates of the area beneath the protected zone template that the inner surface of the windshield was penetrated by a vehicle component.

X	Y
NONE	

REMARKS:

I certify that I have read and performed each instruction.

Signature: *Thick Kosinski*

Date: 10/20/05

DATA SHEET 41
FUEL SYSTEM INTEGRITY (FMVSS 301)

Test Vehicle: 2006 Toyota Corolla
Test Program: FMVSS 208 Compliance
Test Technician: Eric Peschman

NHTSA No.: C65102
Test Date: 10/20/05

TYPE OF IMPACT:	25 mph Unbelted Flat Frontal
-----------------	------------------------------

Stoddard Solvent Spillage Measurements

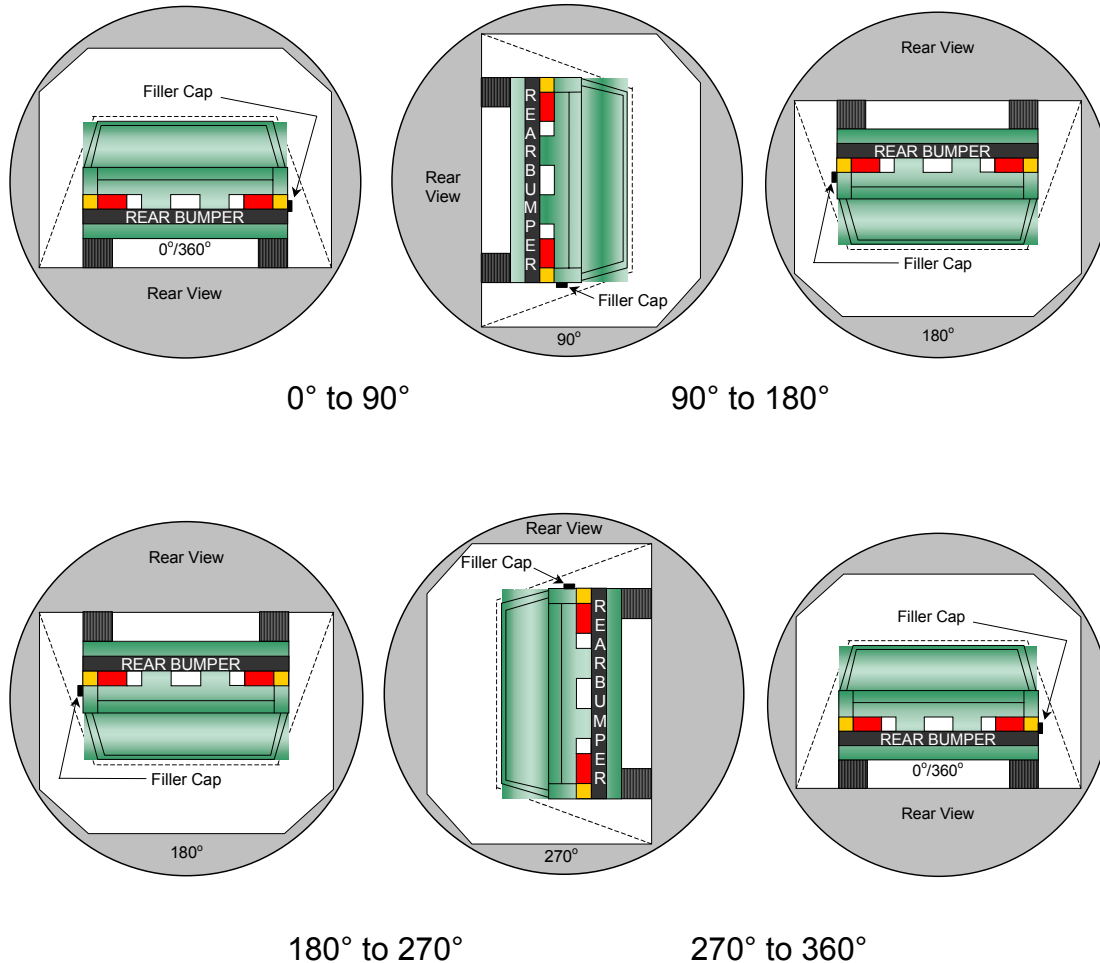
- A. From impact until vehicle motion ceases: 0.0 grams
(Maximum Allowable = 28 grams)
- B. For the 5 minute period after motion ceases: 0.0 grams
(Maximum Allowable = 142 grams)
- C. For the following 25 minutes: 0.0 grams
(Maximum Allowable = 28 grams/minute)
- D. Spillage: NONE

REMARKS: NO SPILLAGE

DATA SHEET NO. 41
FMVSS 301 STATIC ROLLOVER DATA

Test Vehicle: 2006 Toyota Corolla
 Test Program: FMVSS 208 Compliance

NHTSA No.: C65102
 Test Date: 10/20/05



1. The specified fixture rollover rate for each 90° of rotation is 60 to 180 seconds.
2. The position hold time at each position is 300 seconds (minimum).
3. Details of Stoddard Solvent spillage locations: **The post test FMVSS 301 rollover was not conducted at direction of the COTR.**

Test Phase	Rotation Time (sec.)	Hold Time (sec.)	Spillage (grams)
0° to 90°			
90° to 180°			
180° to 270°			
270° to 360°			

APPENDIX A
CRASH TEST DATA

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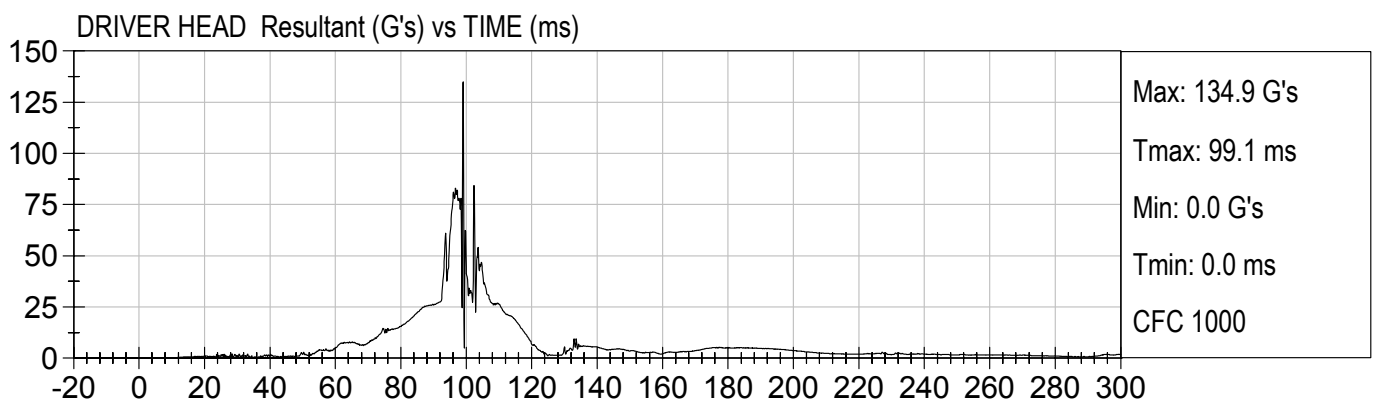
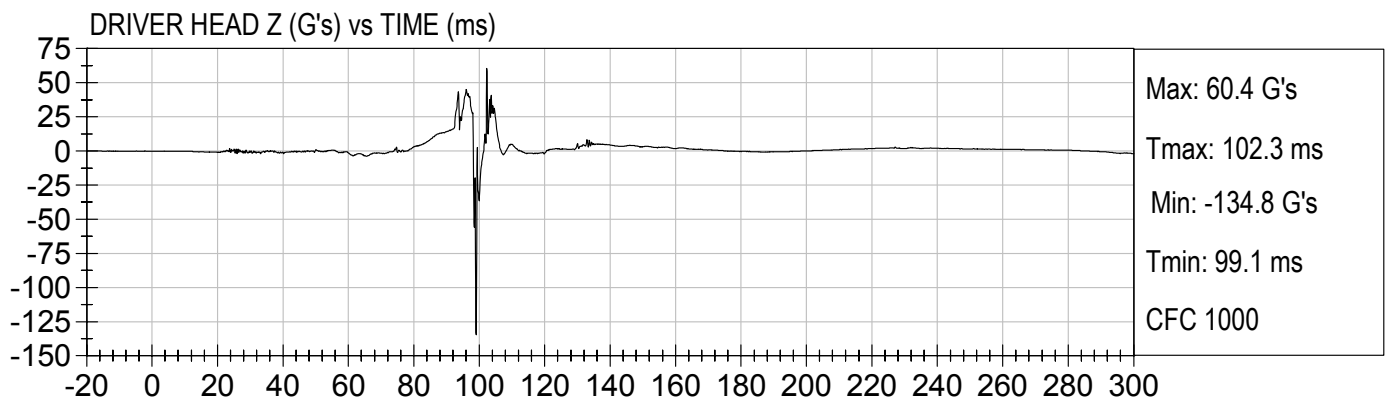
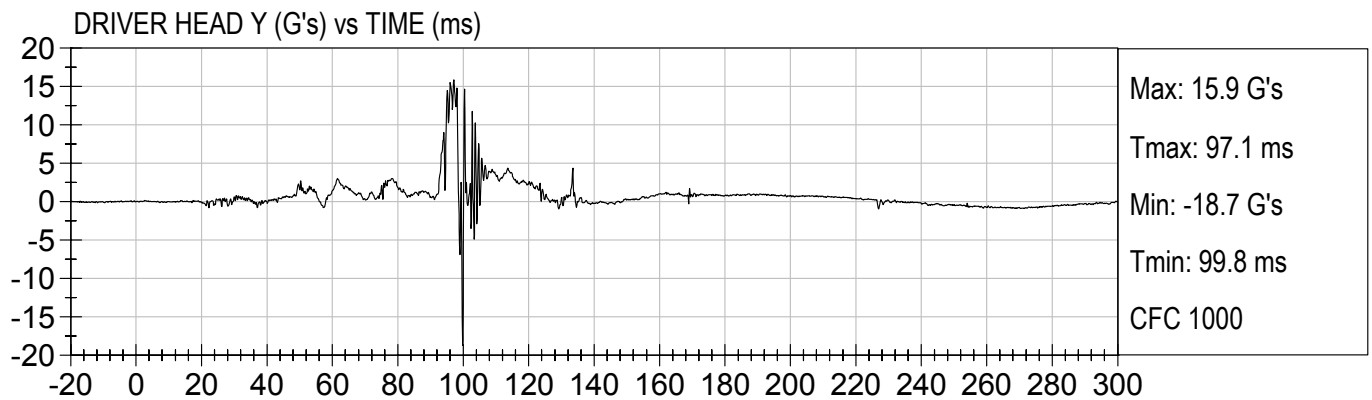
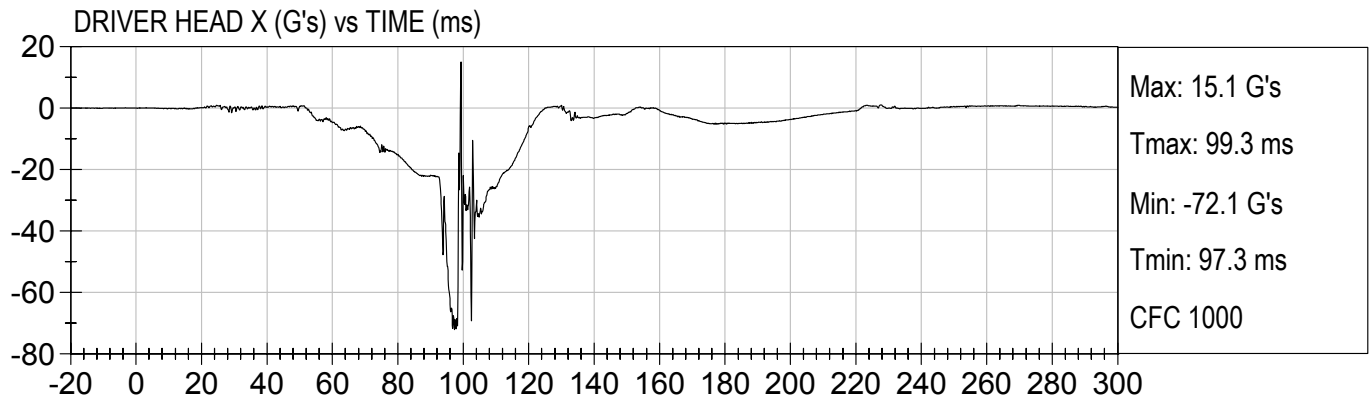
		<u>Page No.</u>
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25MPH FRONTAL UNBELTED
2006 TOYOTA COROLLA (C65102)

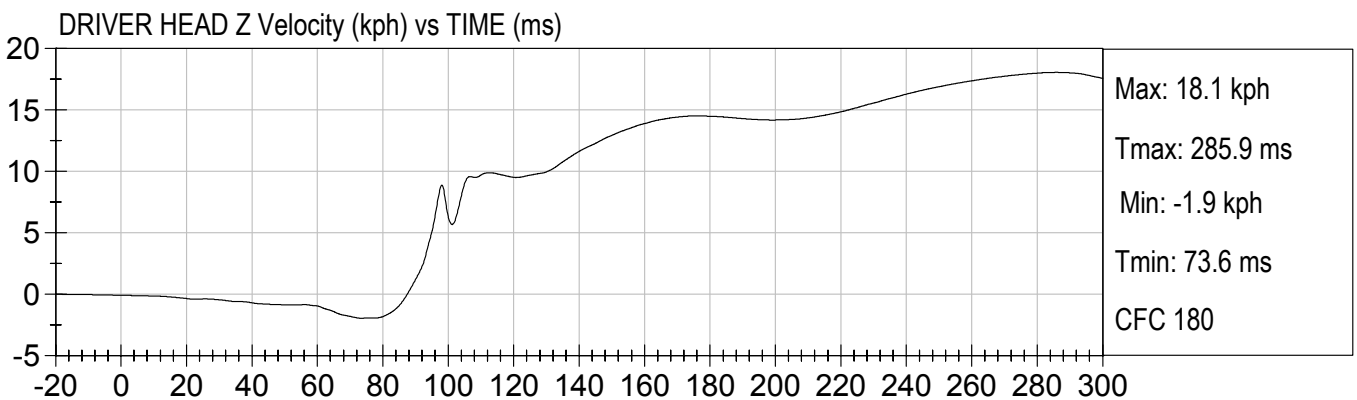
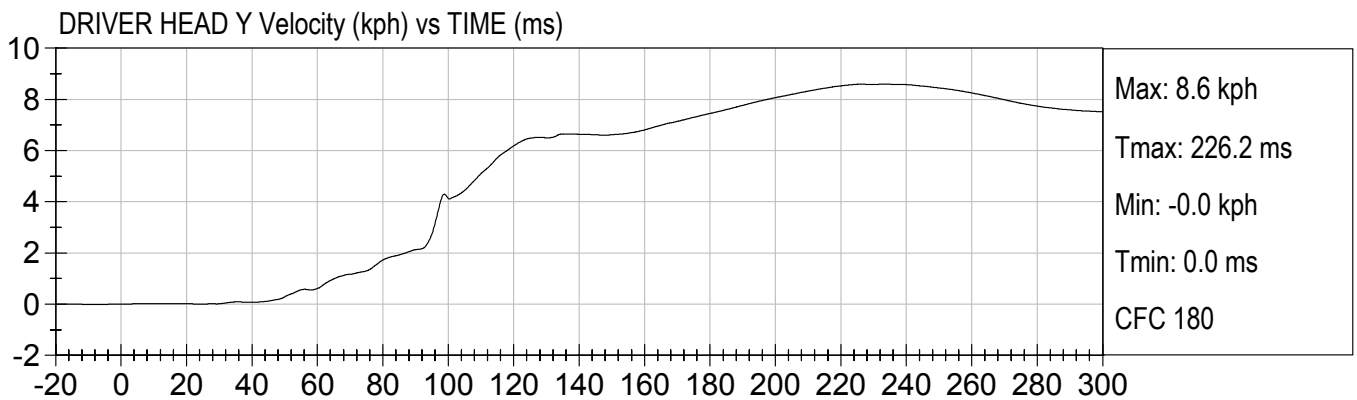
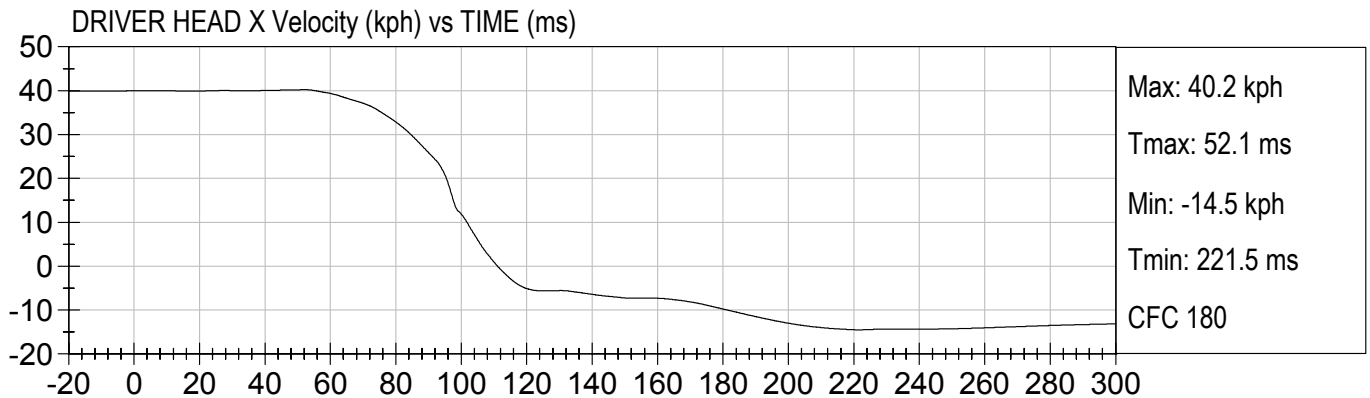
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Speed: 24.8 mph (39.9 km/h)





25MPH FRONTAL UNBELTED
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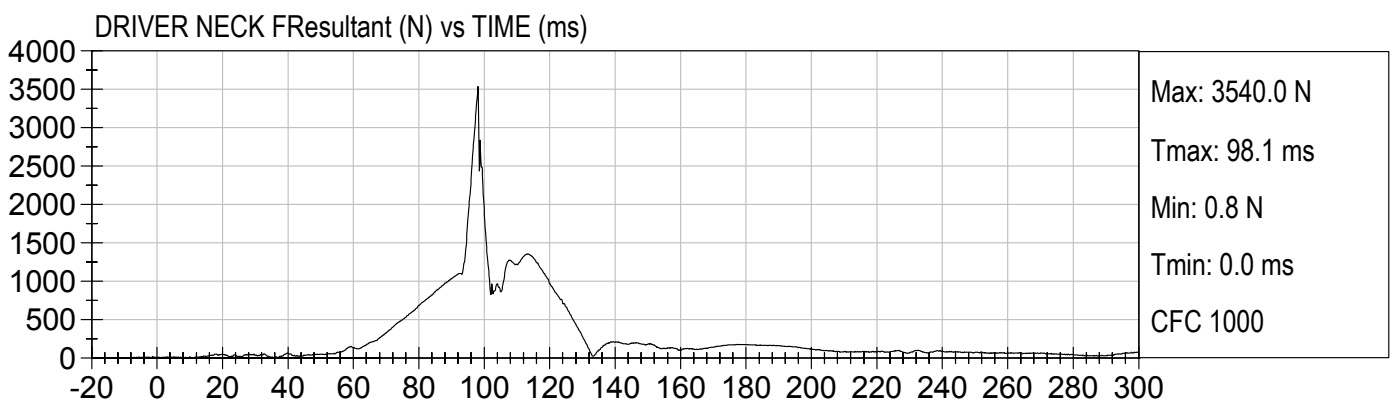
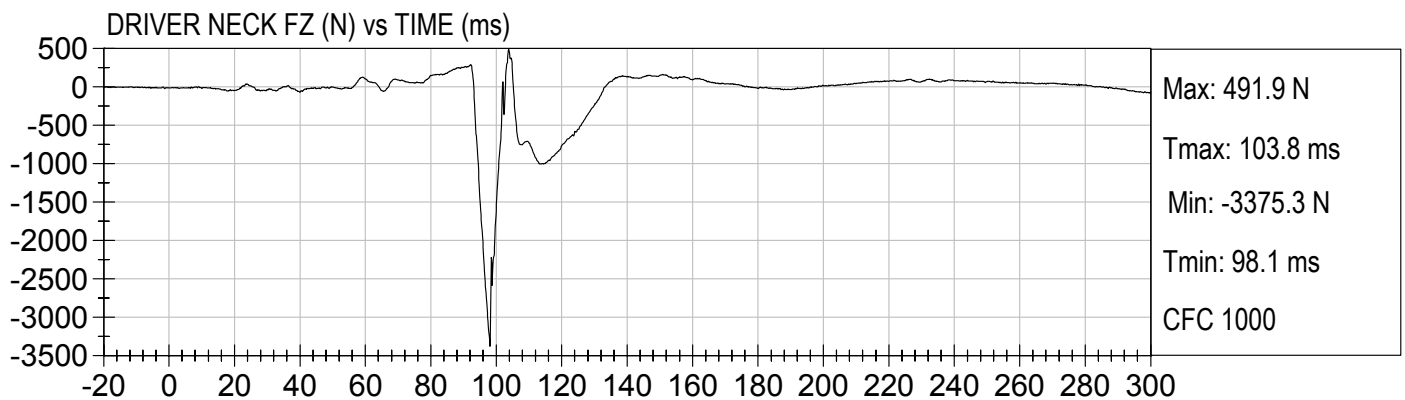
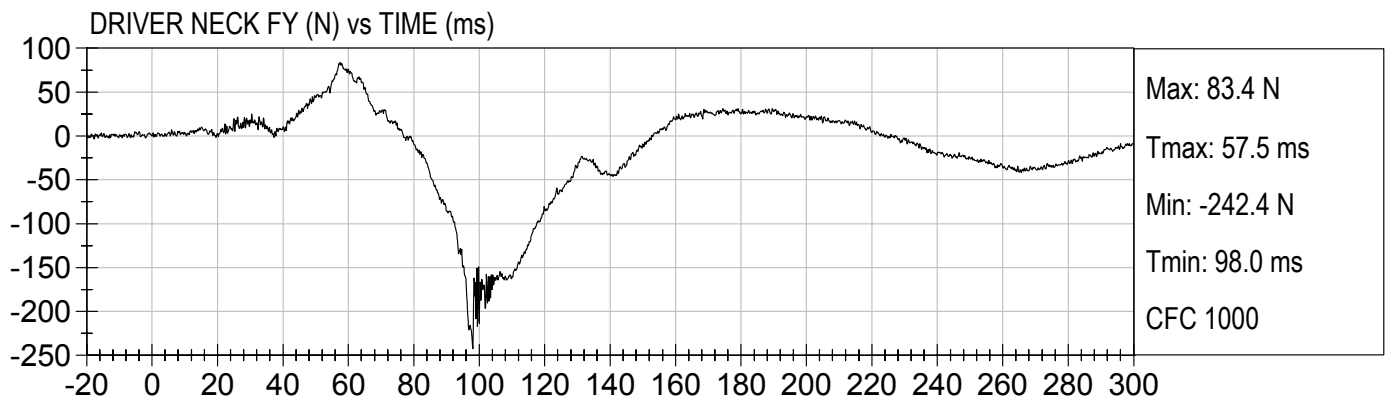
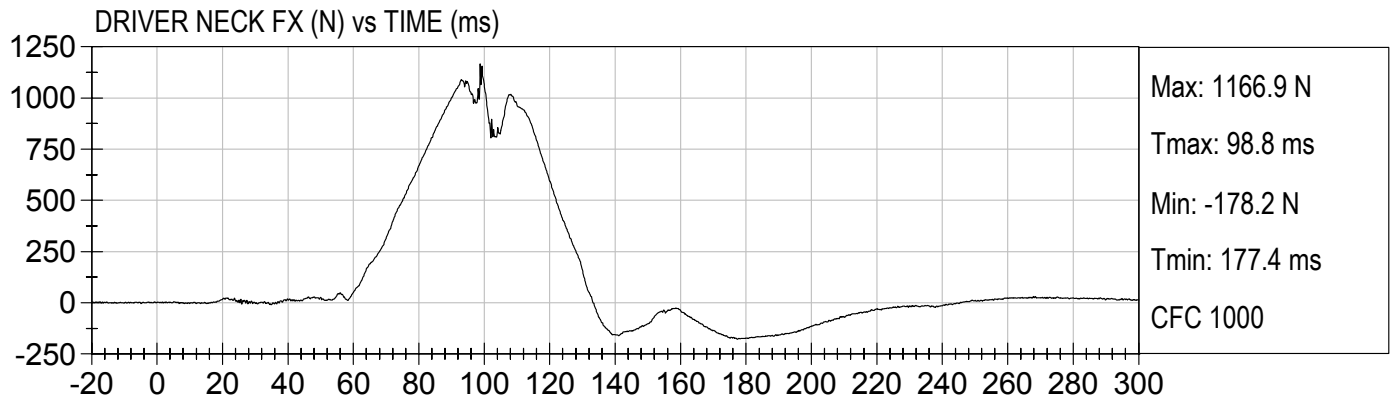
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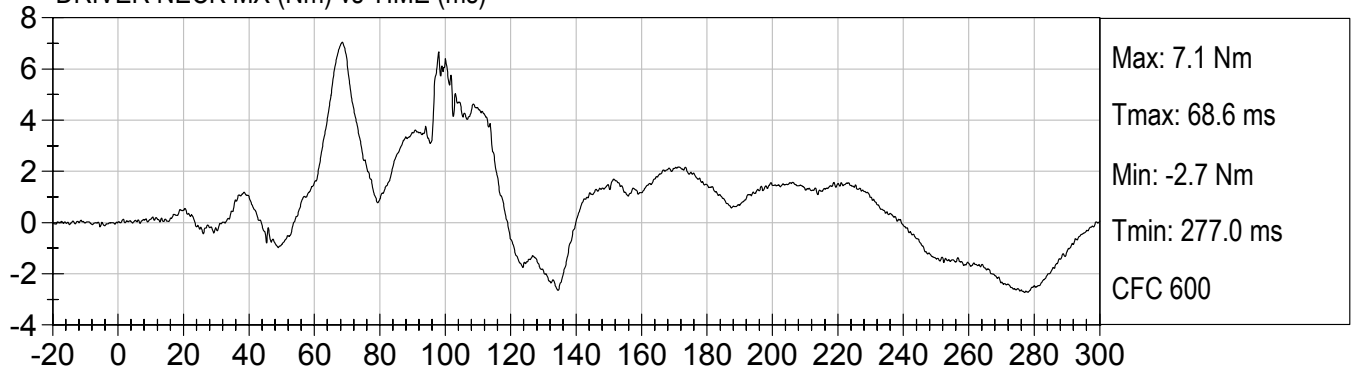




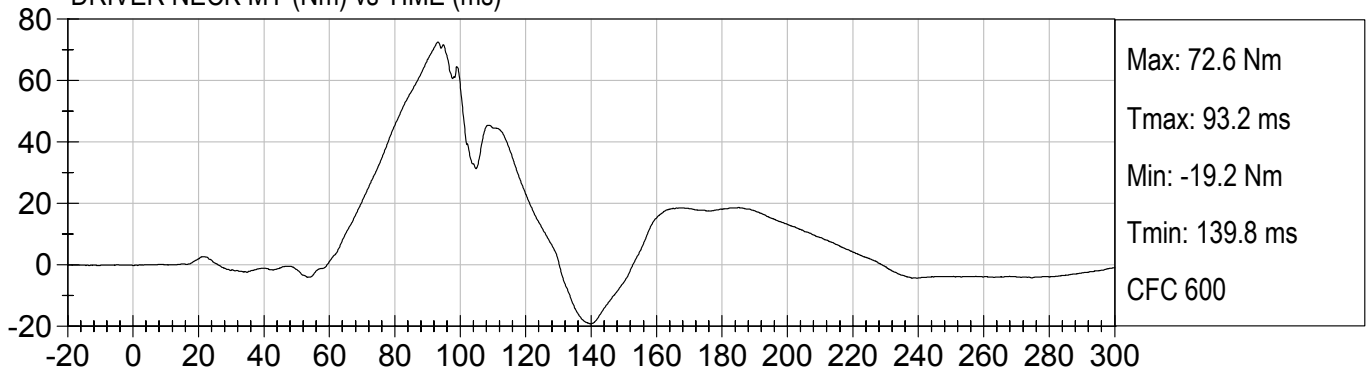
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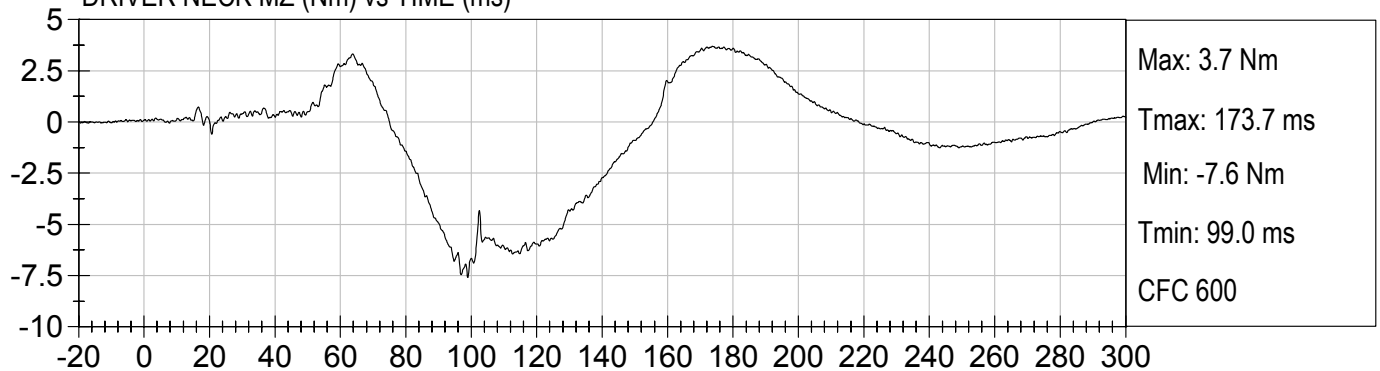
DRIVER NECK MX (Nm) vs TIME (ms)



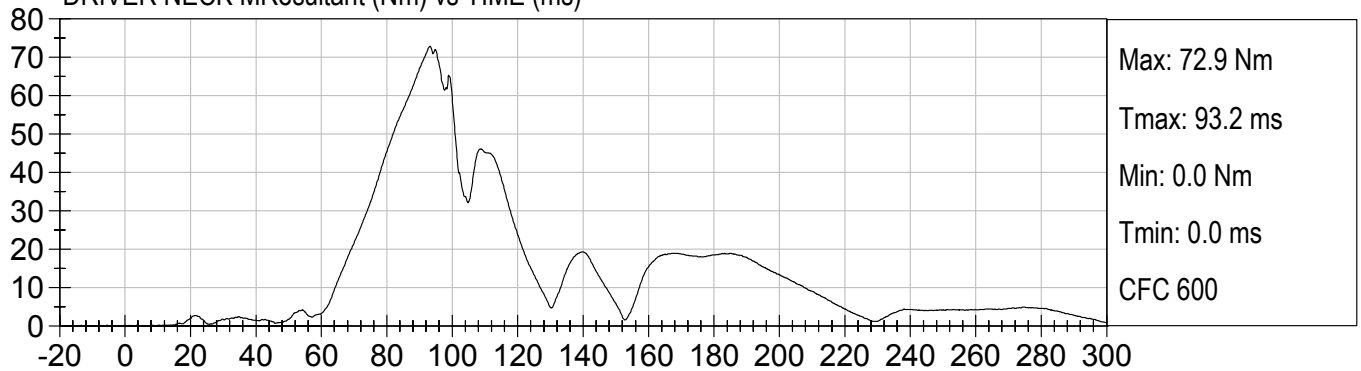
DRIVER NECK MY (Nm) vs TIME (ms)



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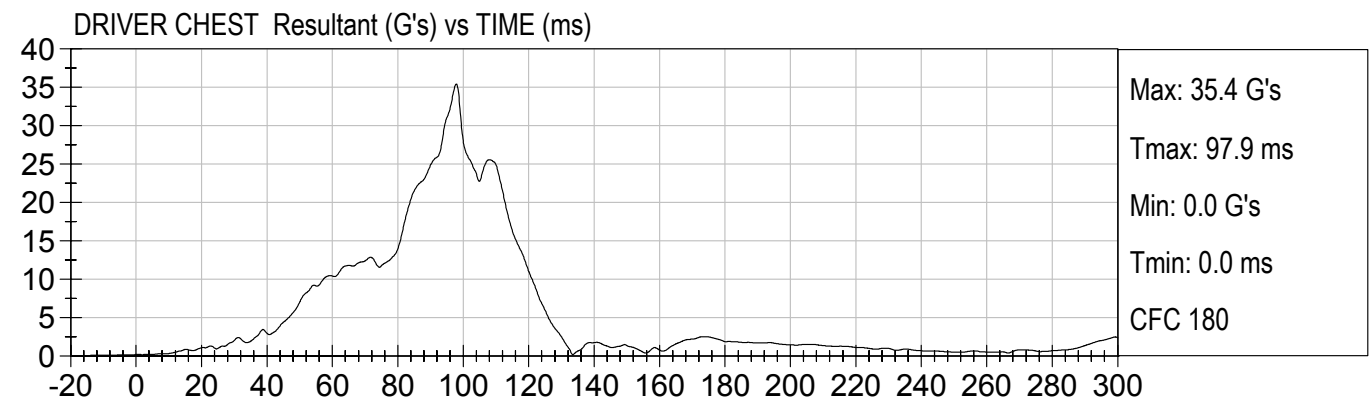
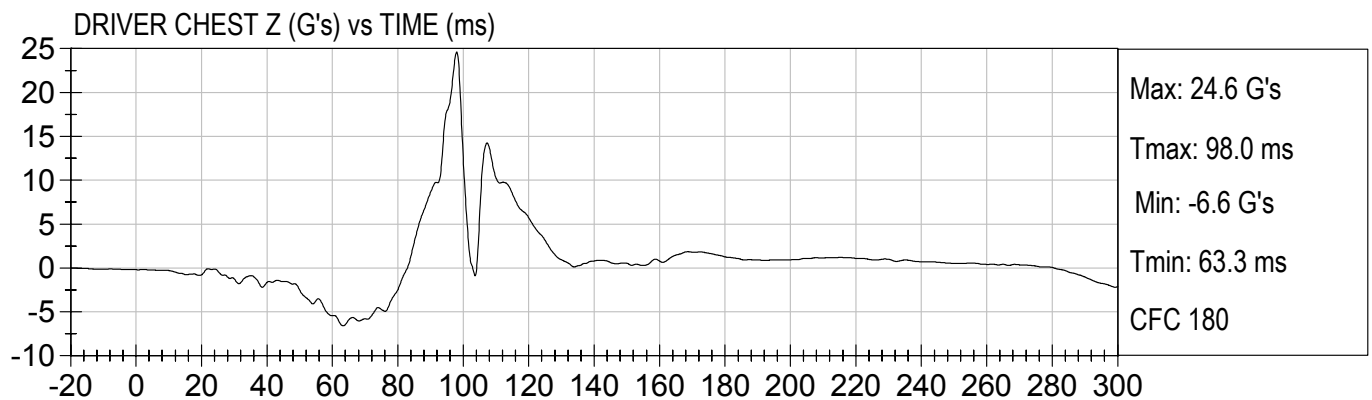
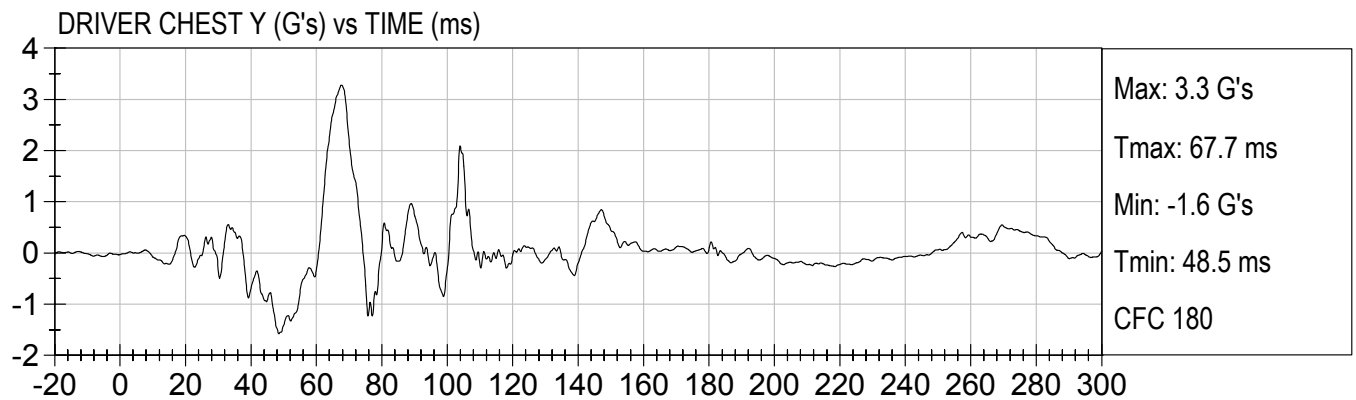
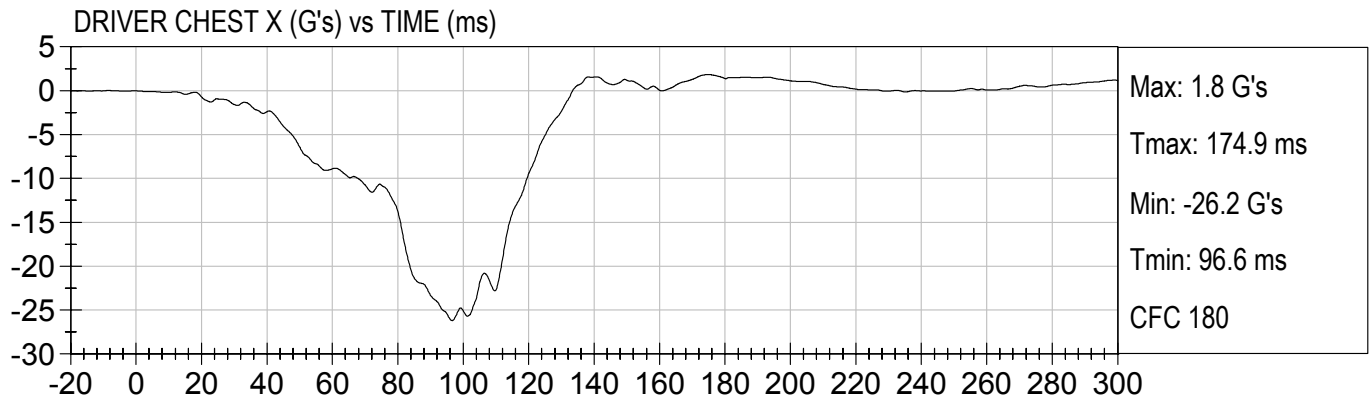
DRIVER NECK MResultant (Nm) vs TIME (ms)





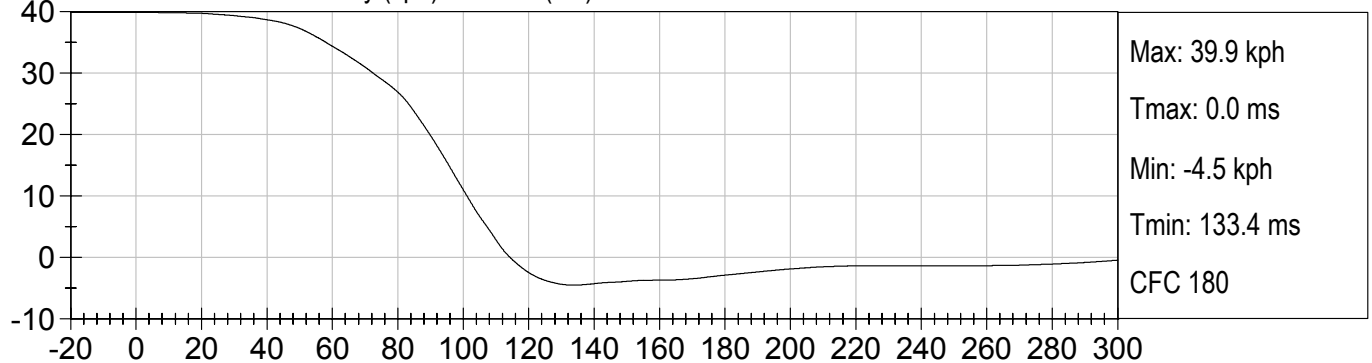
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2006 TOYOTA COROLLA (C65102)

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Speed: 24.8 mph (39.9 km/h)

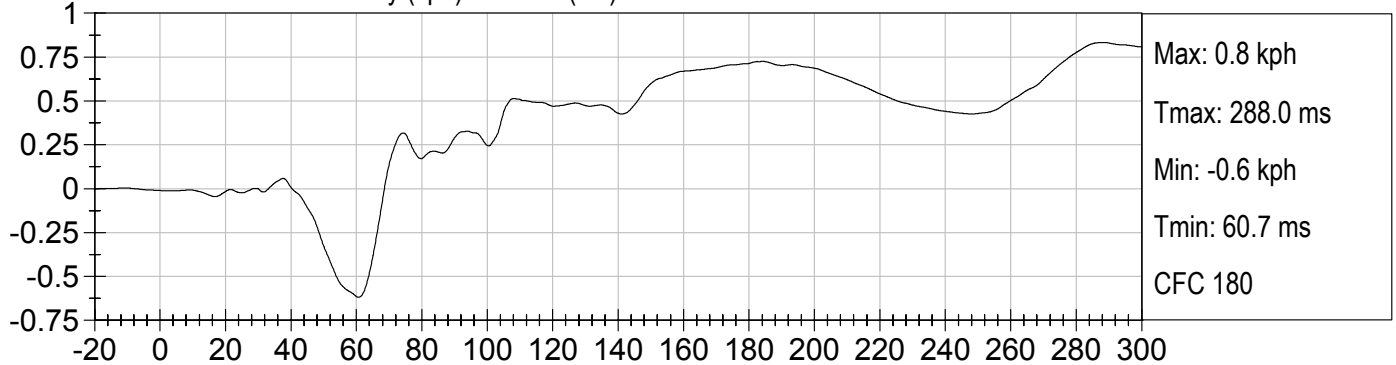




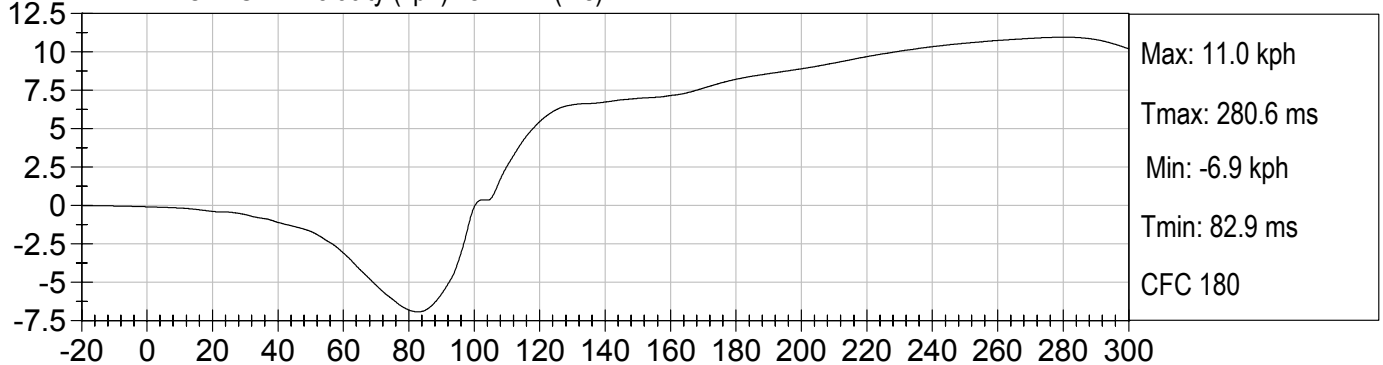
DRIVER CHEST X Velocity (kph) vs TIME (ms)



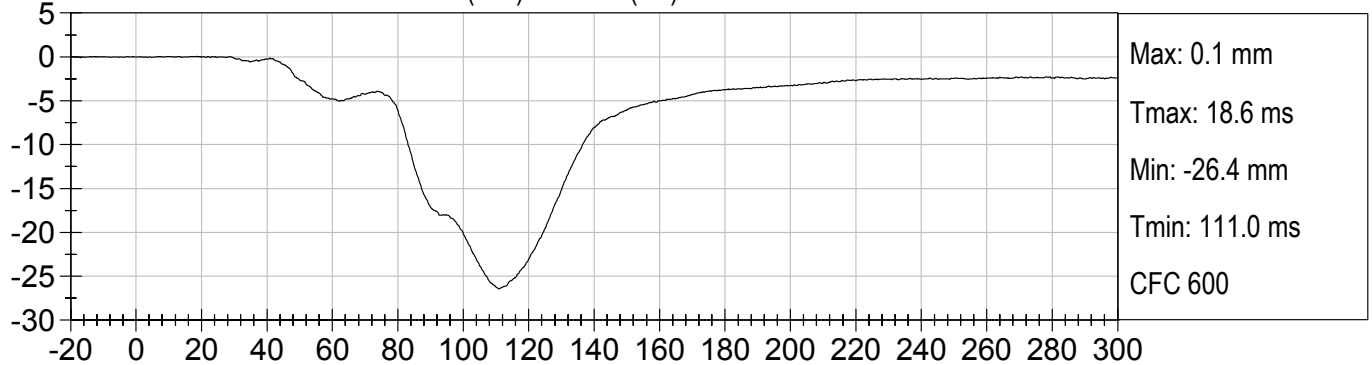
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DRIVER CHEST Z Velocity (kph) vs TIME (ms)



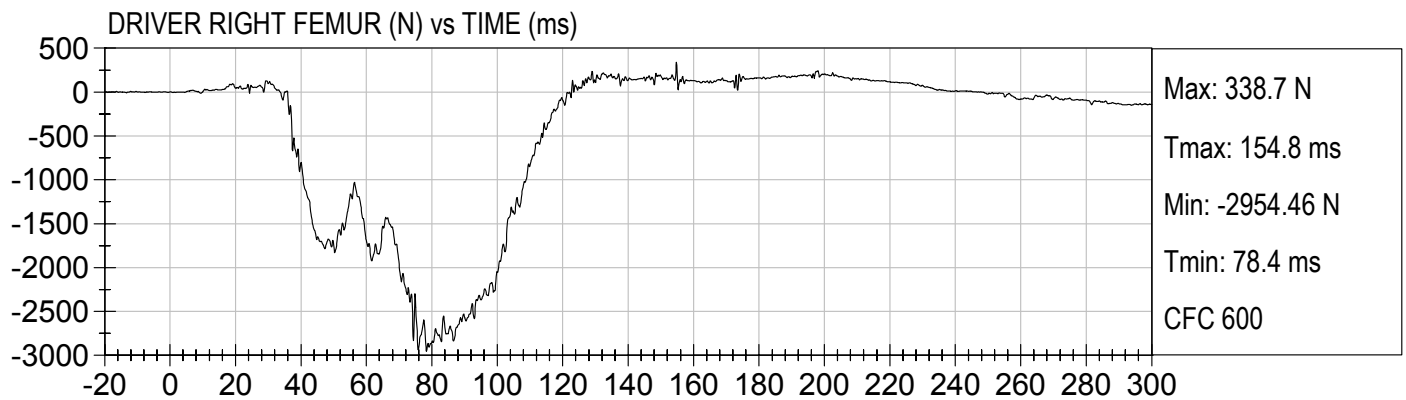
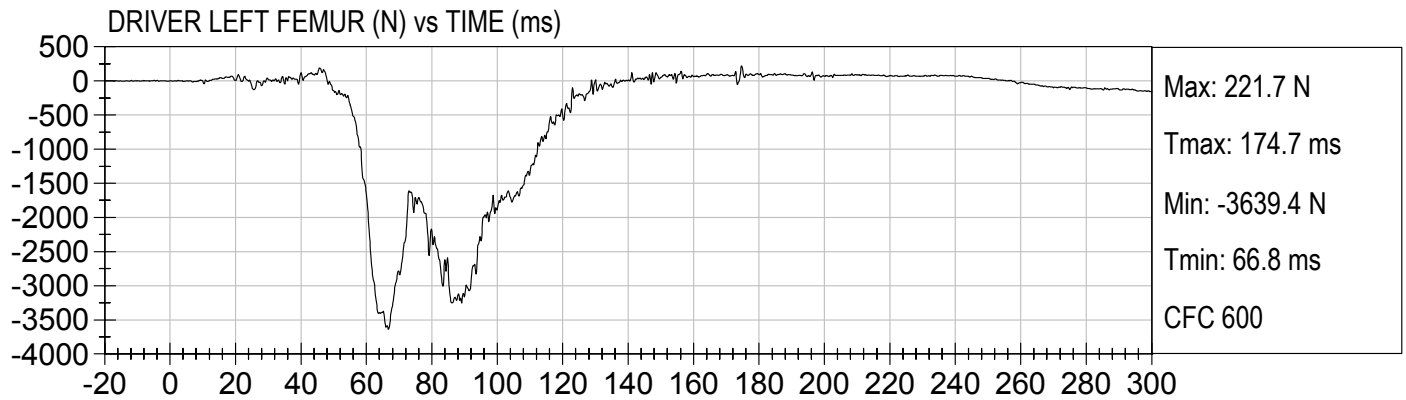
DRIVER CHEST DISPLACEMENT (mm) vs TIME (ms)





25MPH FRONTAL UNBELTED
2006 TOYOTA COROLLA (C65102)

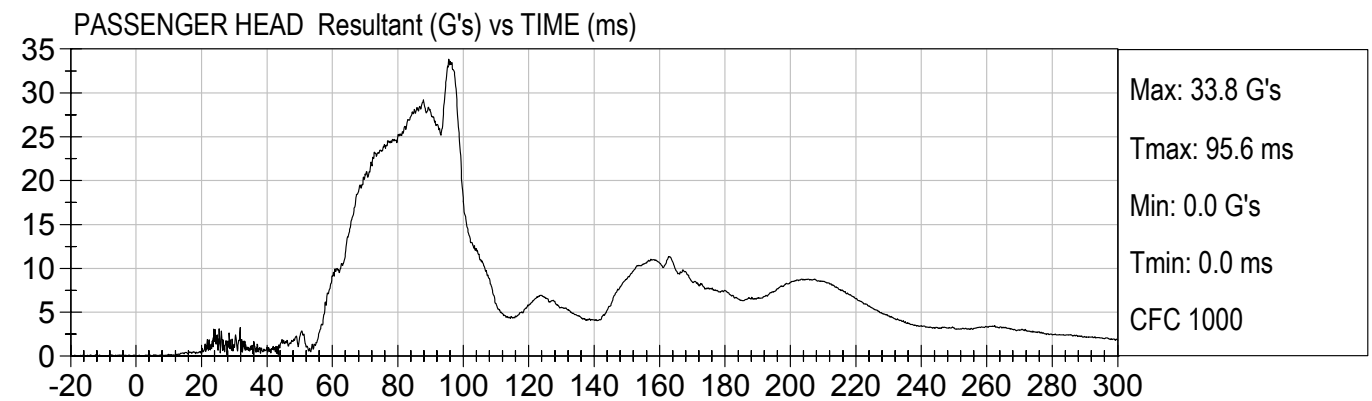
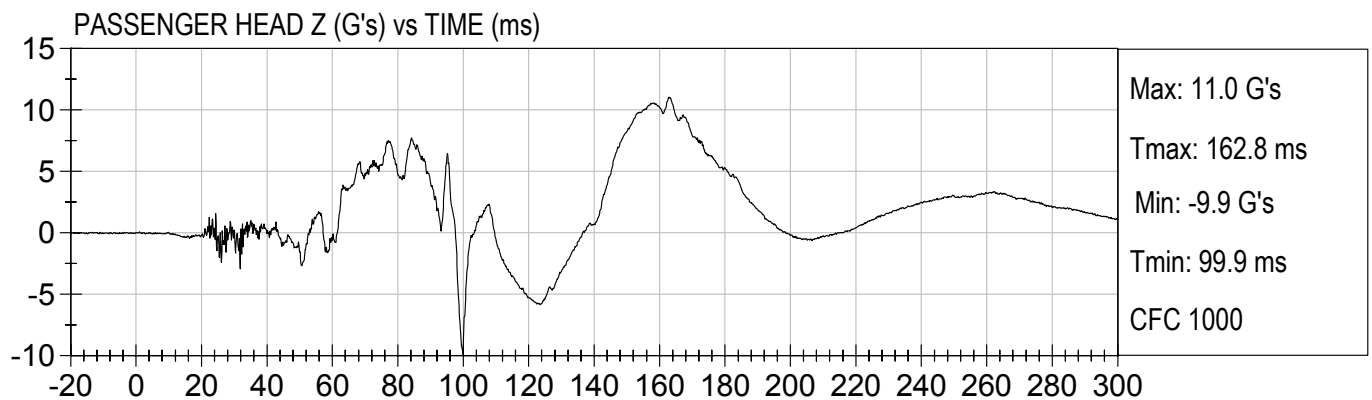
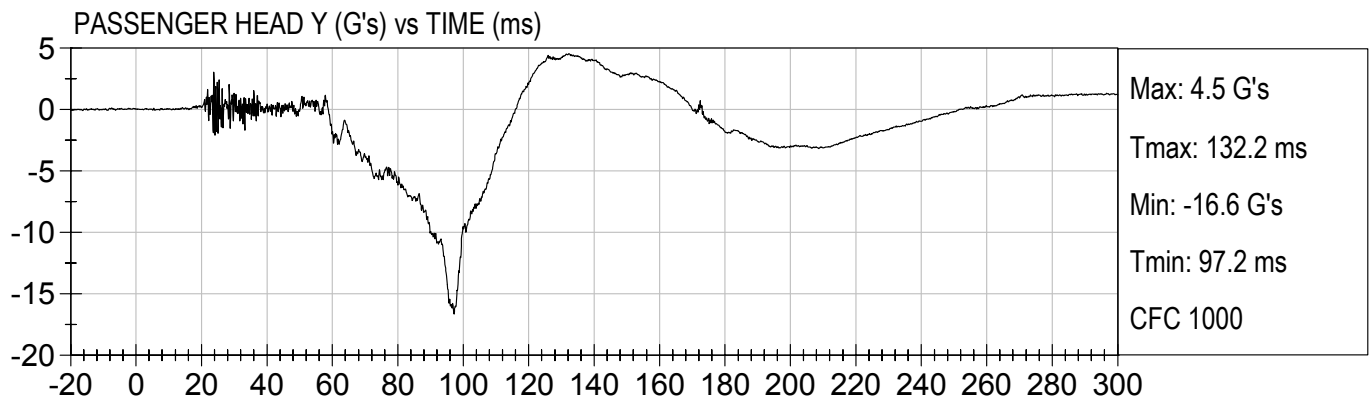
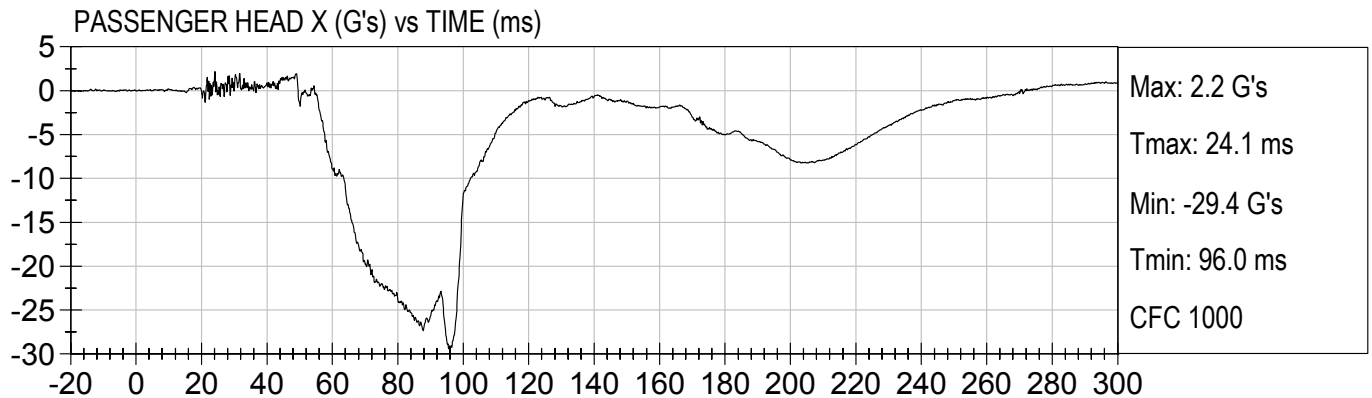
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Speed: 24.8 mph (39.9 km/h)





25MPH FRONTAL UNBELTED
2006 TOYOTA COROLLA (C65102)

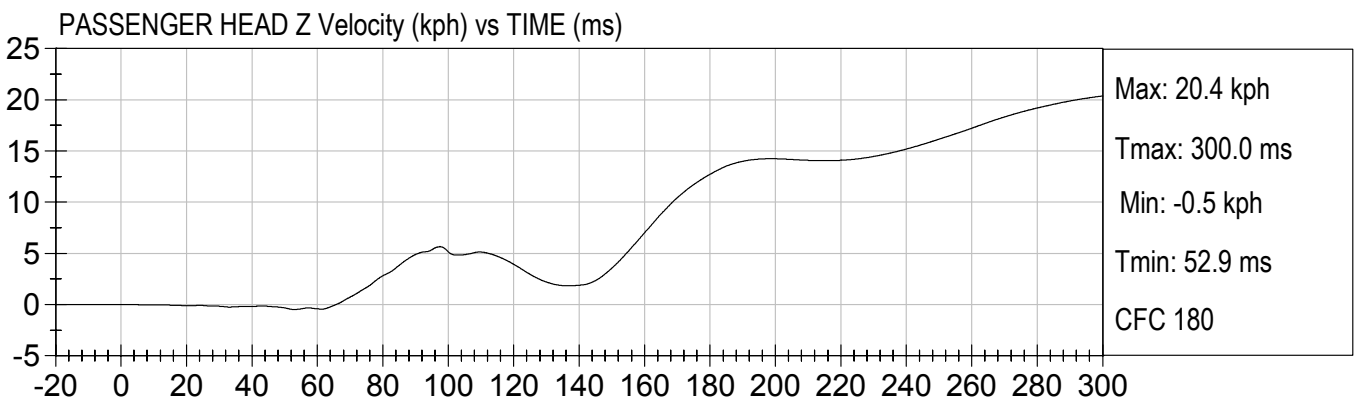
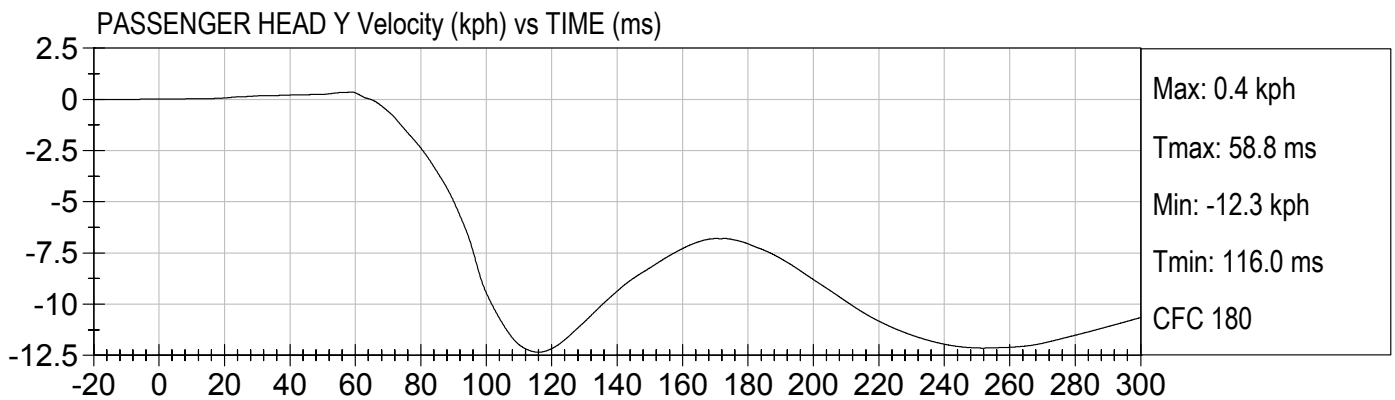
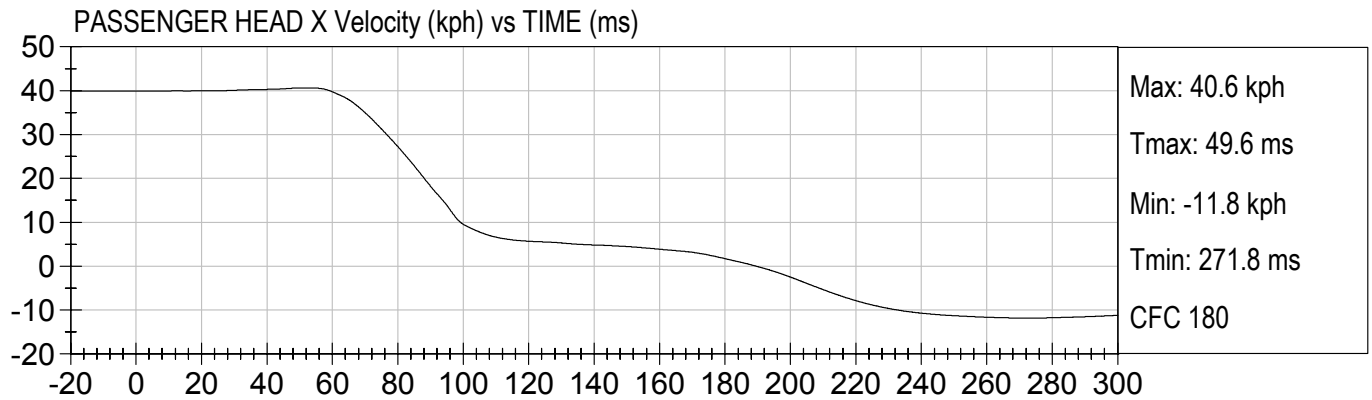
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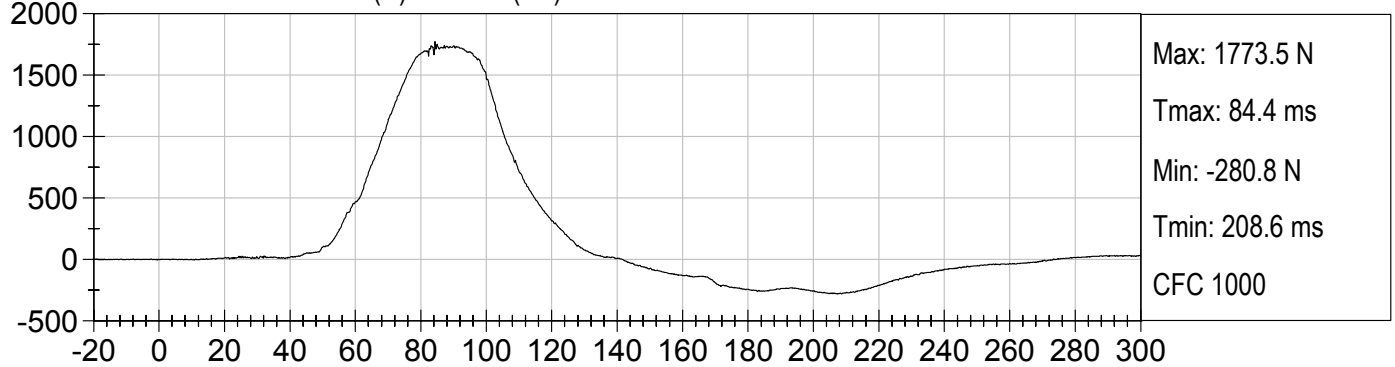




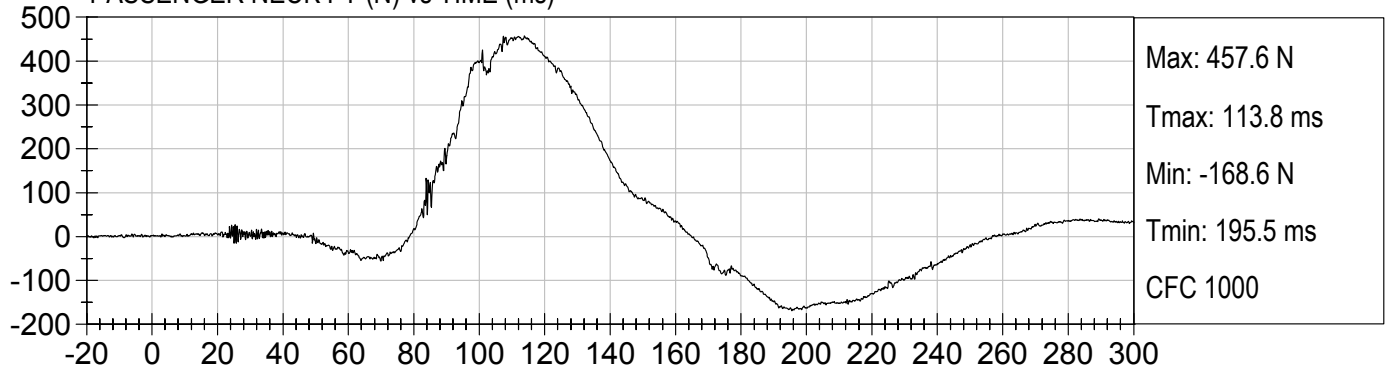
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2006 TOYOTA COROLLA (C65102)

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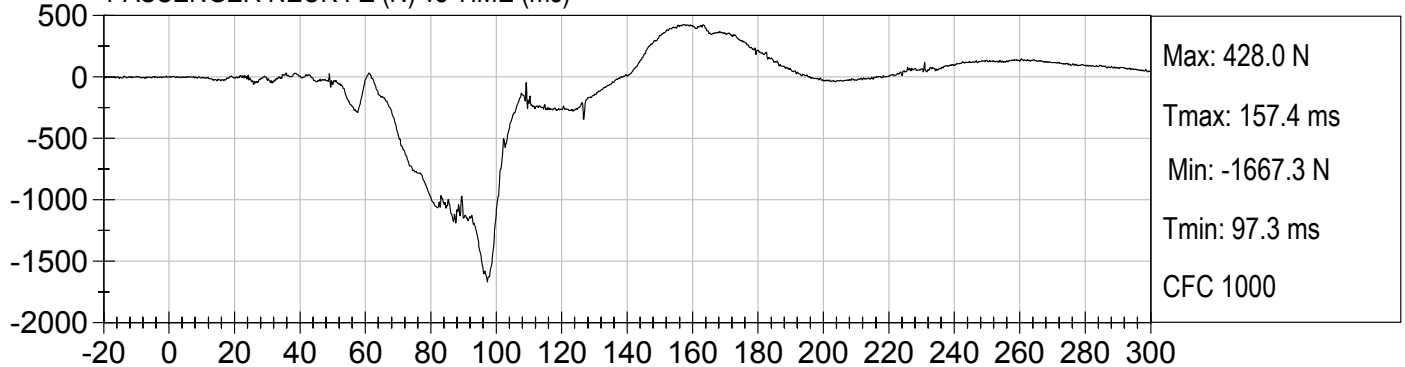
PASSENGER NECK FX (N) vs TIME (ms)



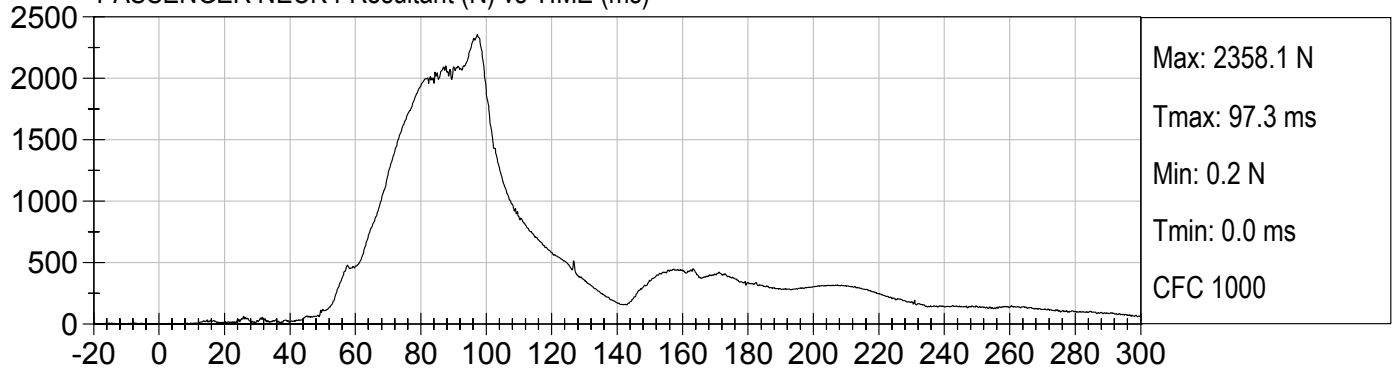
PASSENGER NECK FY (N) vs TIME (ms)



PASSENGER NECK FZ (N) vs TIME (ms)



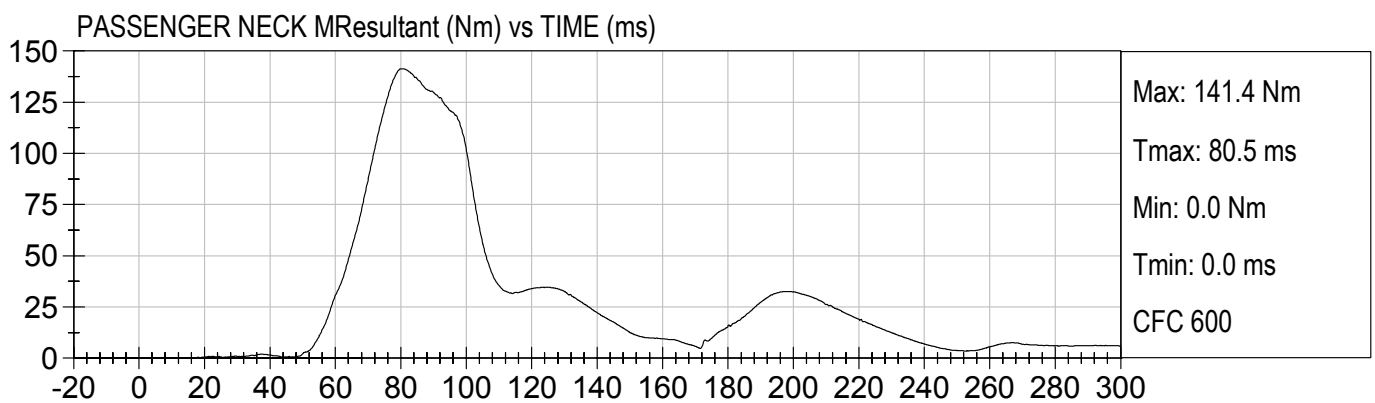
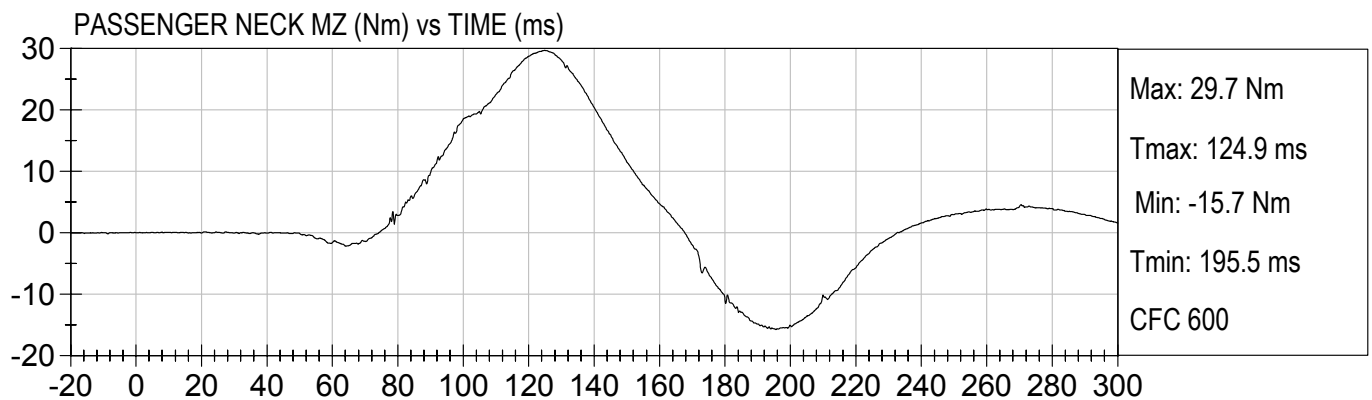
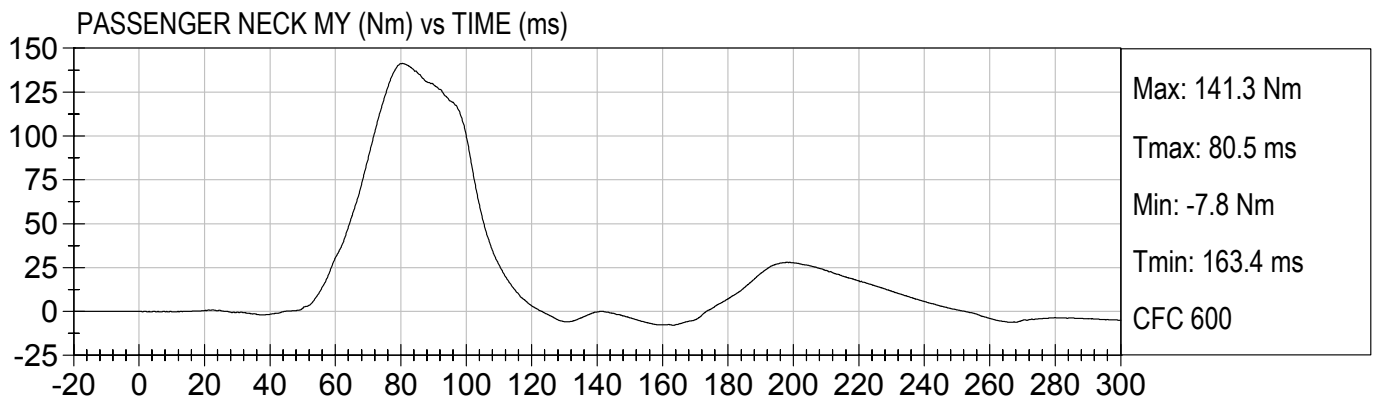
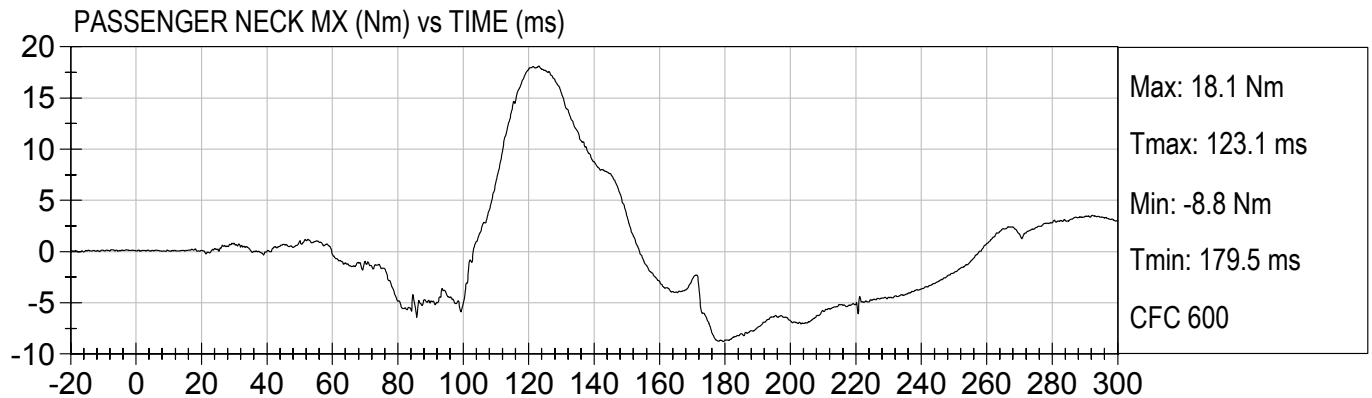
PASSENGER NECK FResultant (N) vs TIME (ms)





25MPH FRONTAL UNBELTED
2006 TOYOTA COROLLA (C65102)

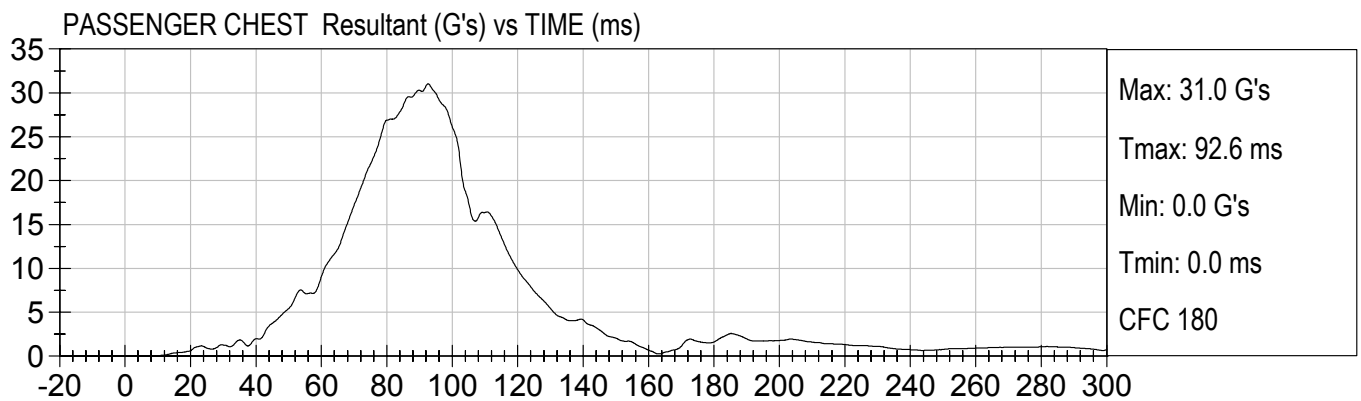
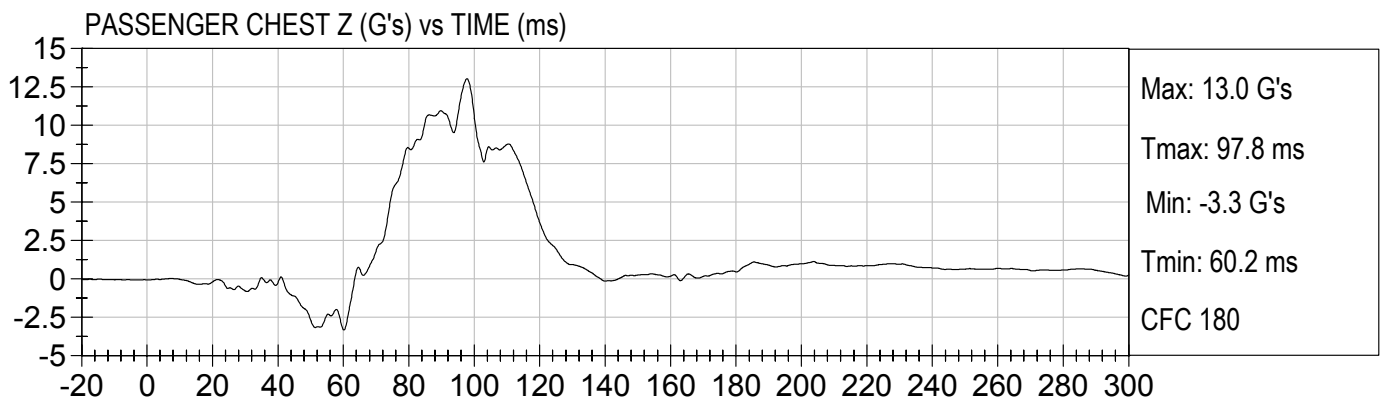
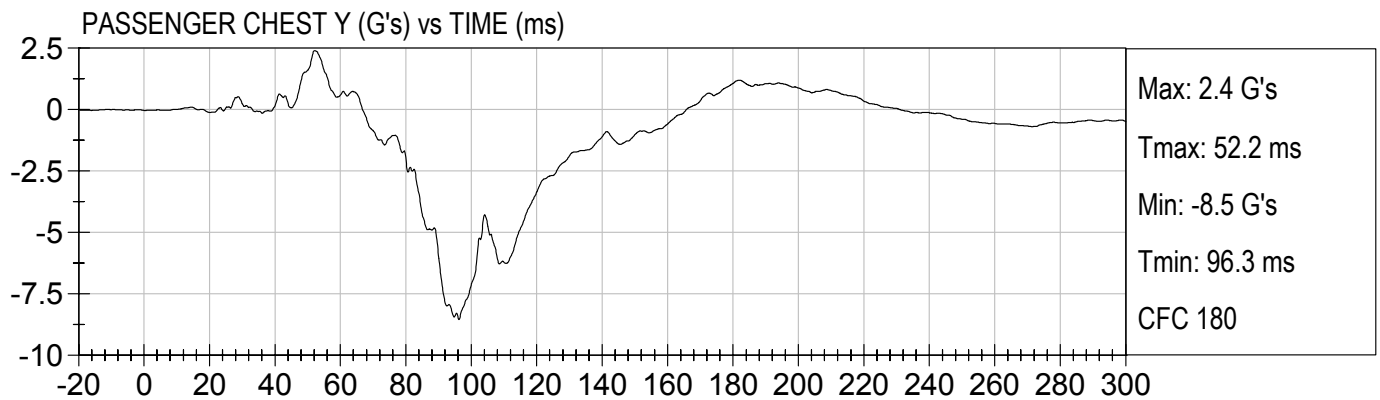
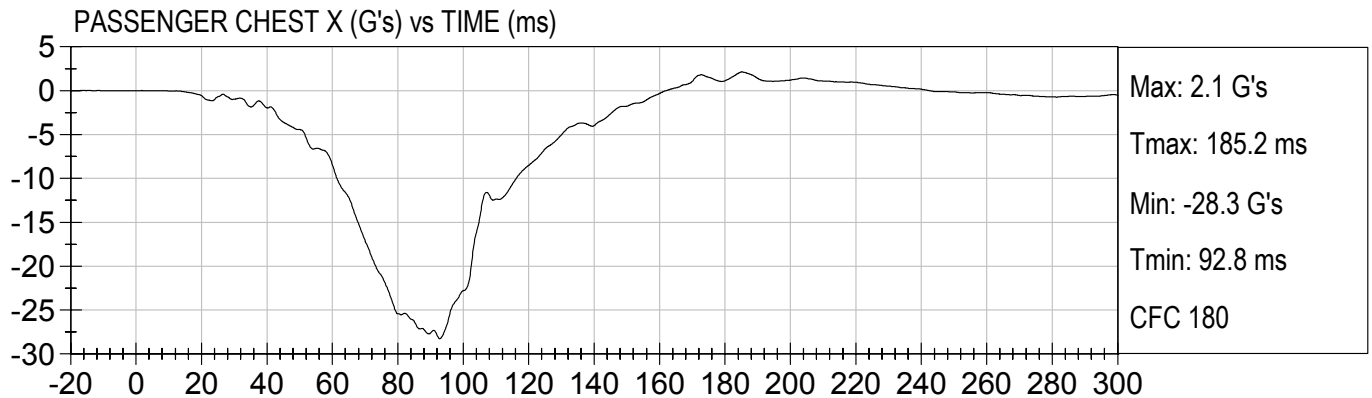
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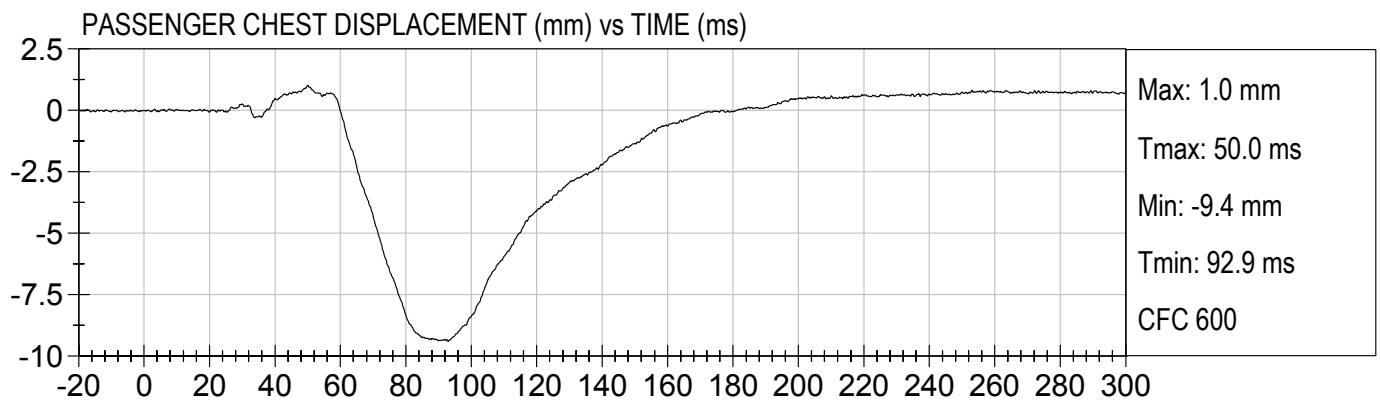
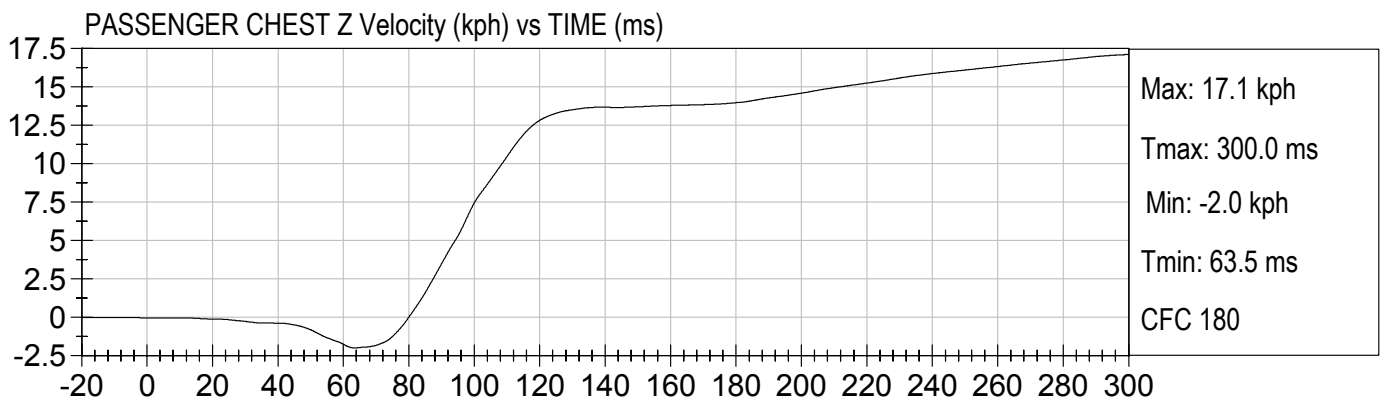
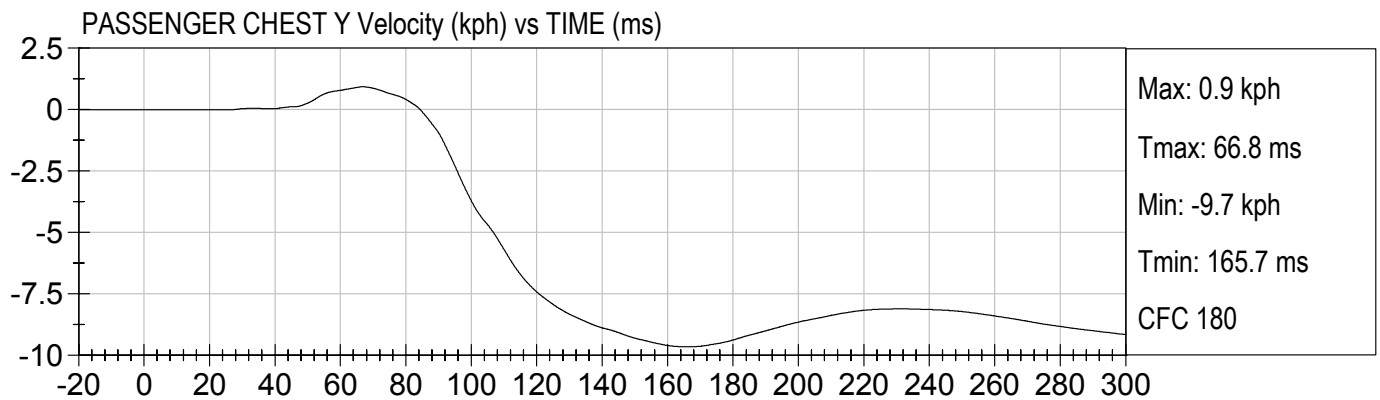
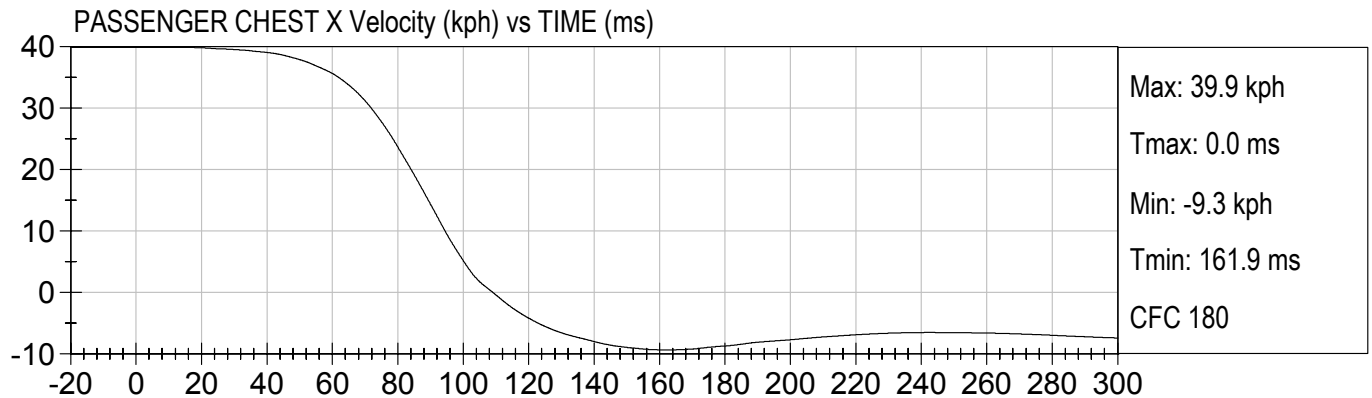




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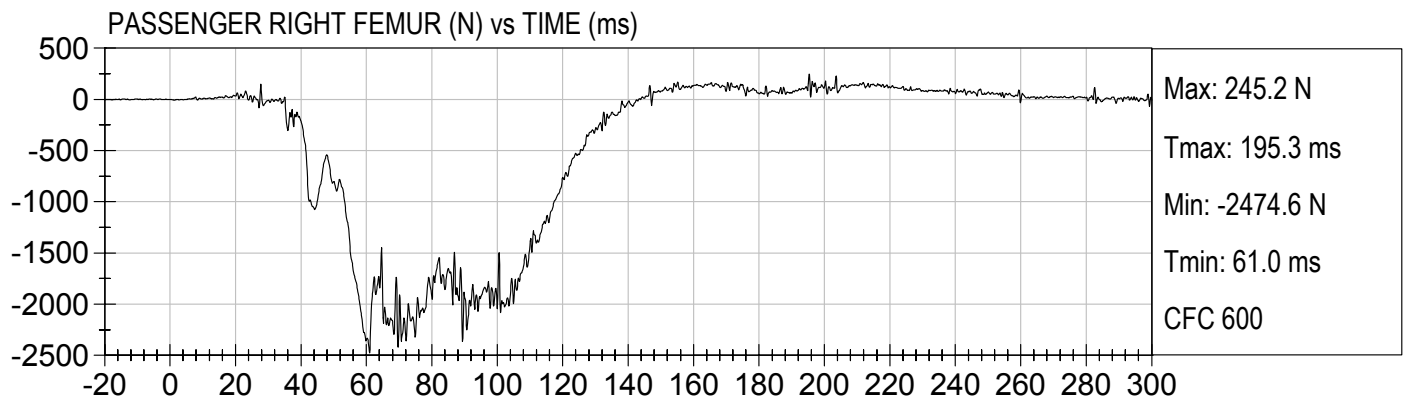
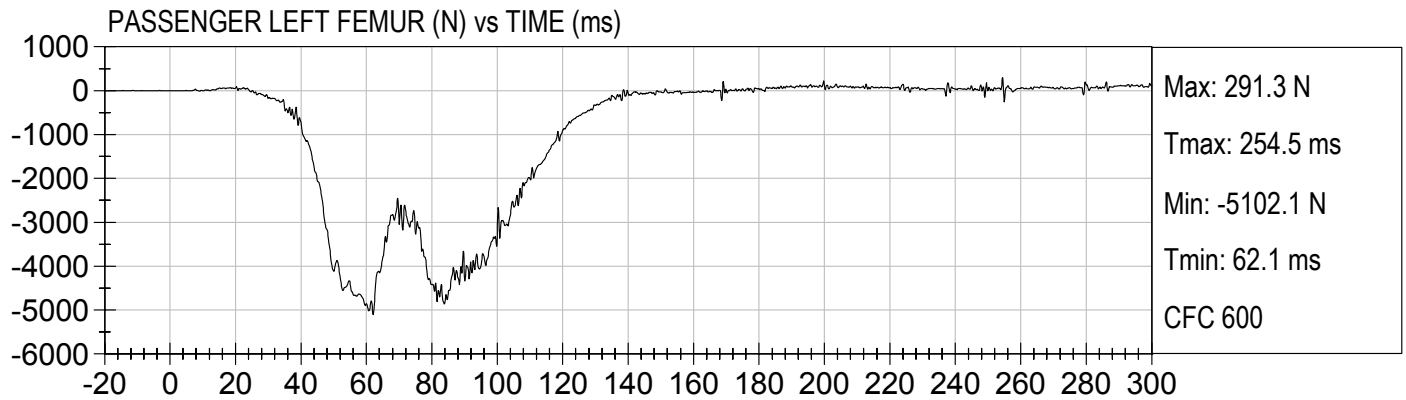






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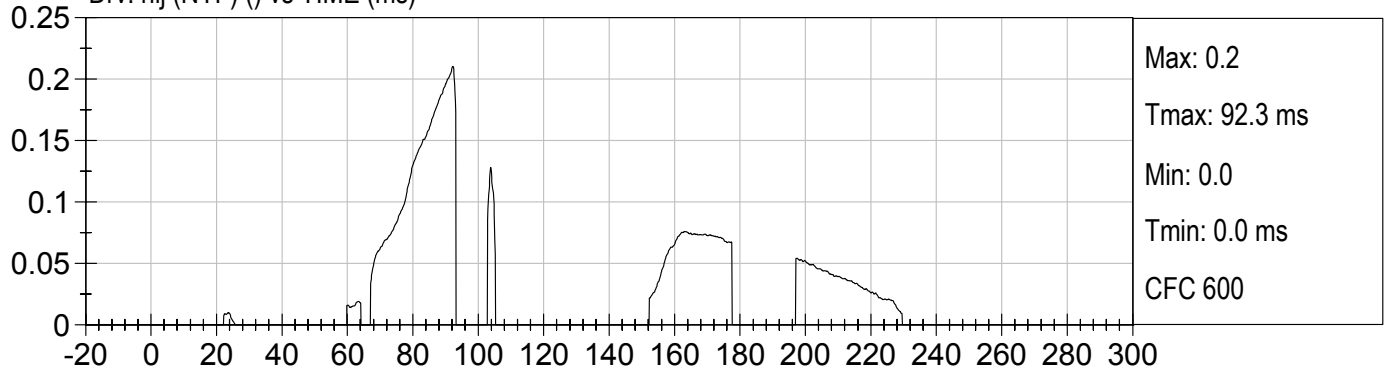




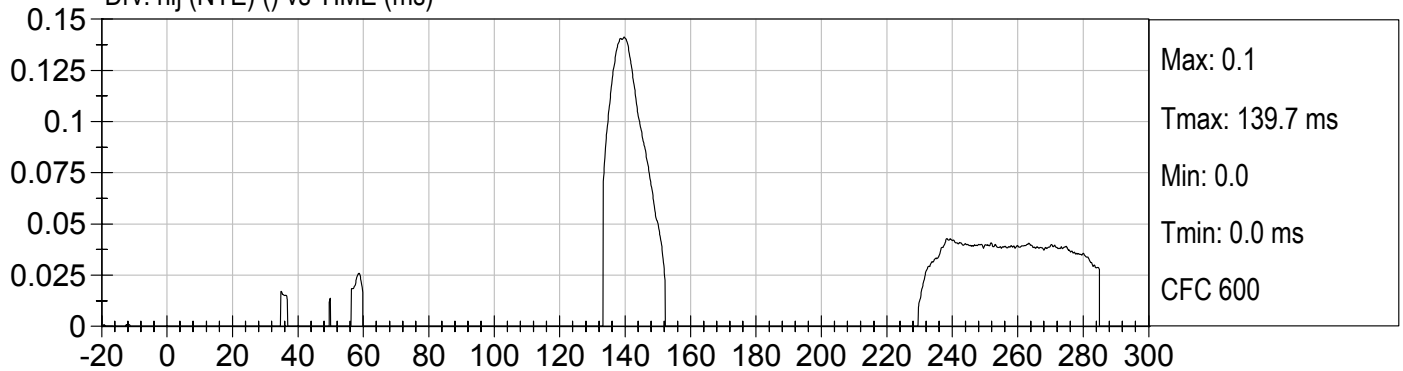
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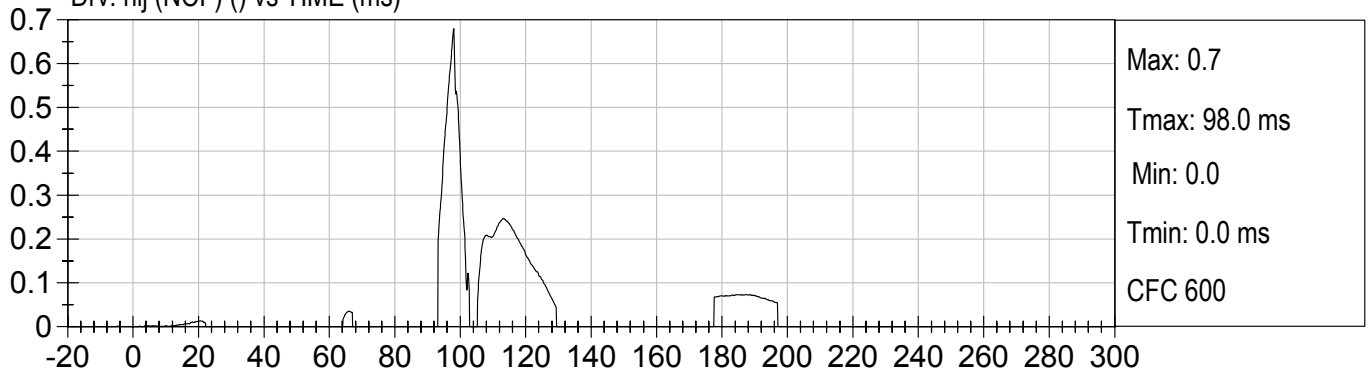
Drv. nij (NTF) () vs TIME (ms)



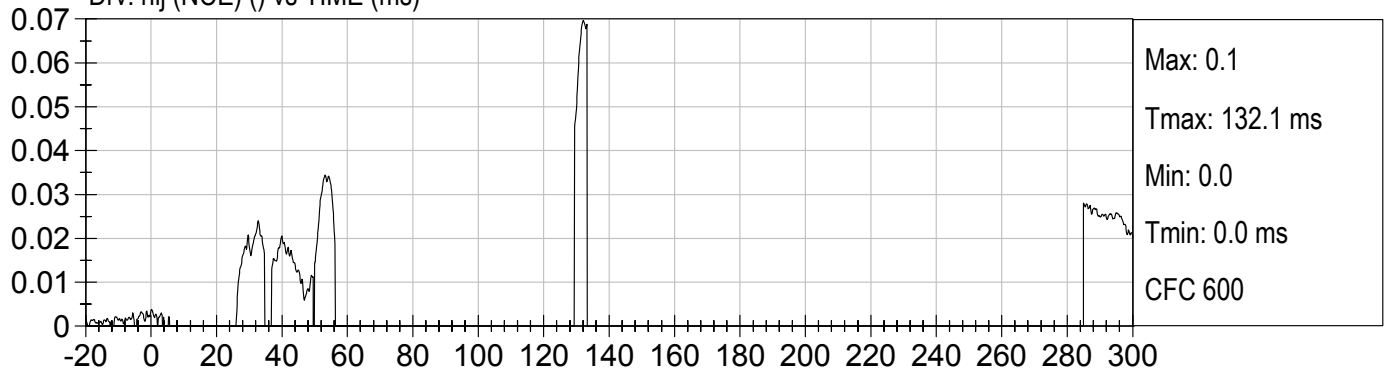
Drv. nij (NTE) () vs TIME (ms)



Drv. nij (NCF) () vs TIME (ms)



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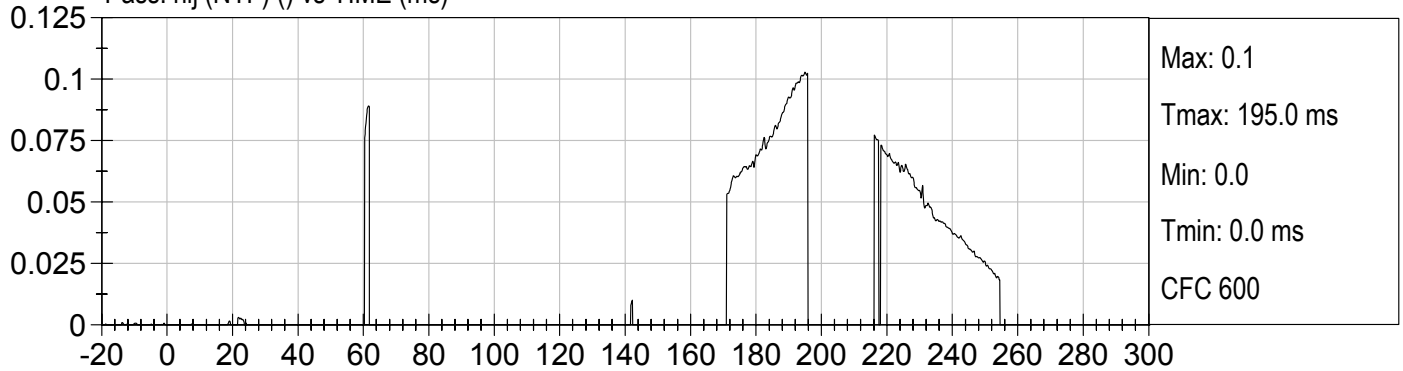




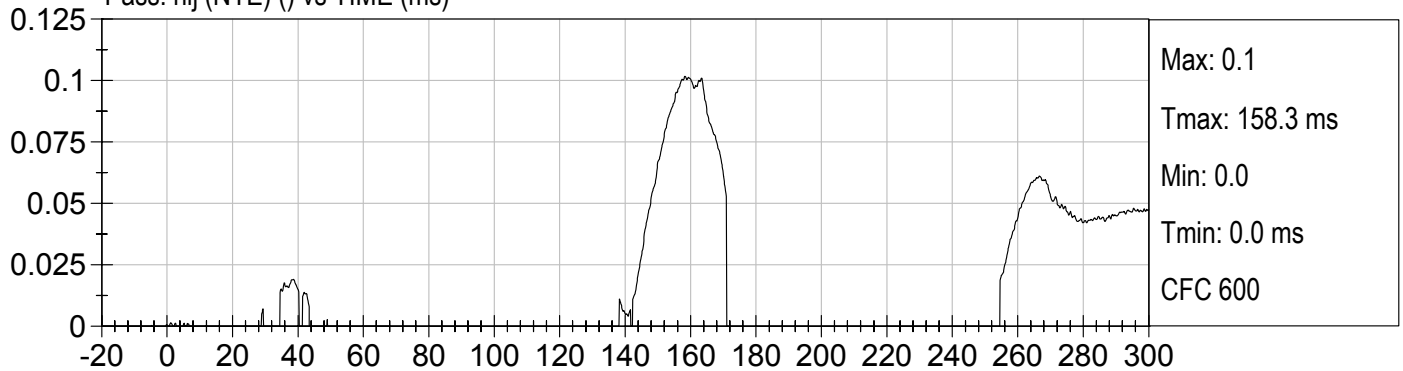
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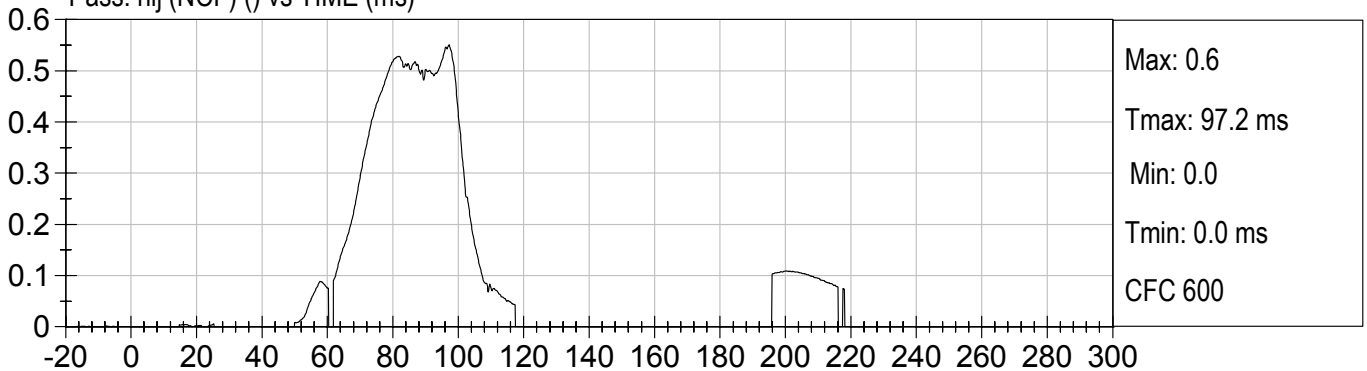
Pass. nij (NTF) () vs TIME (ms)



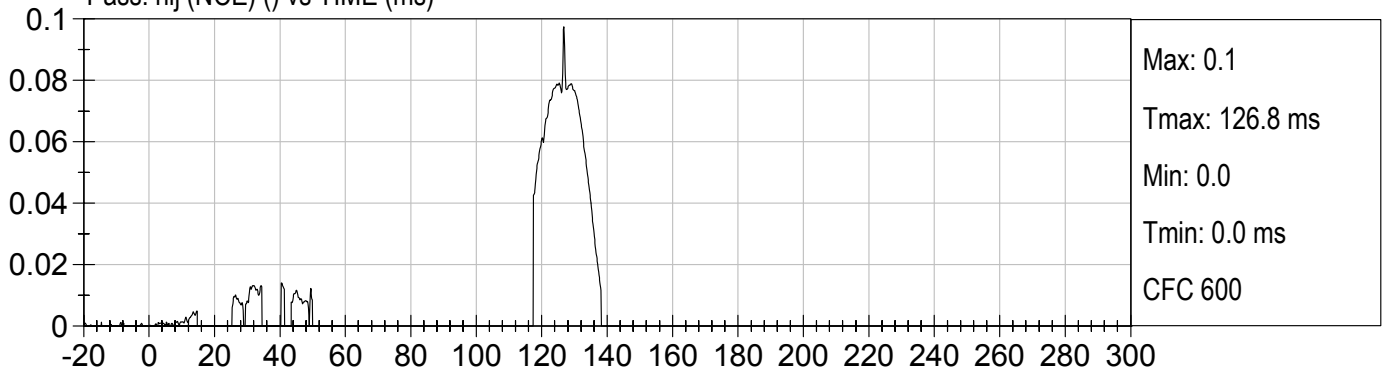
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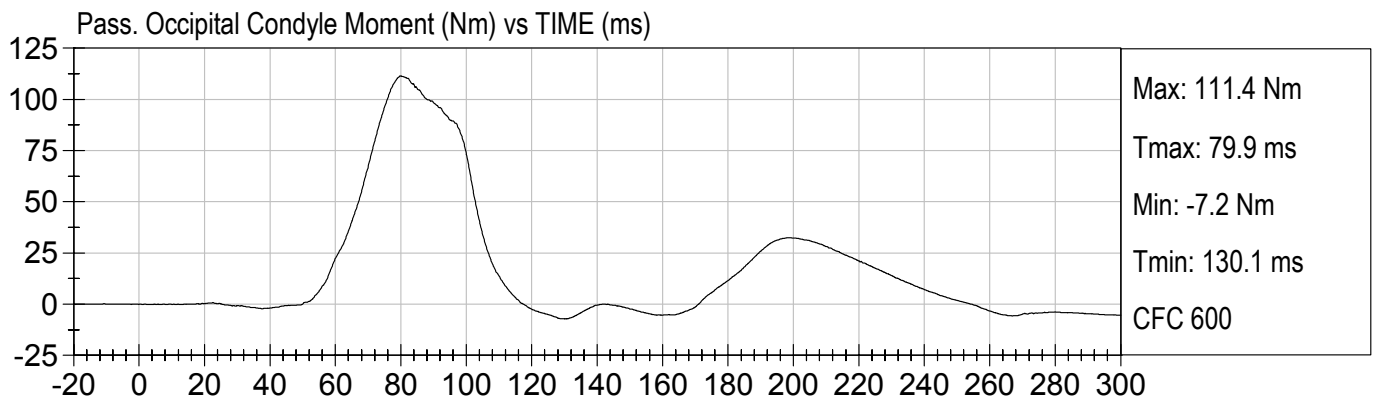
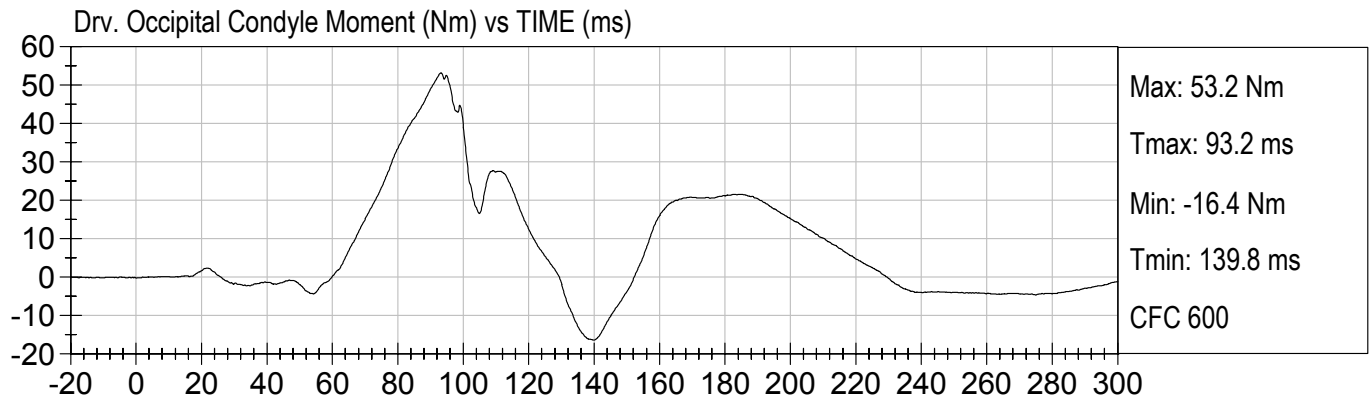
Pass. nij (NCE) () vs TIME (ms)





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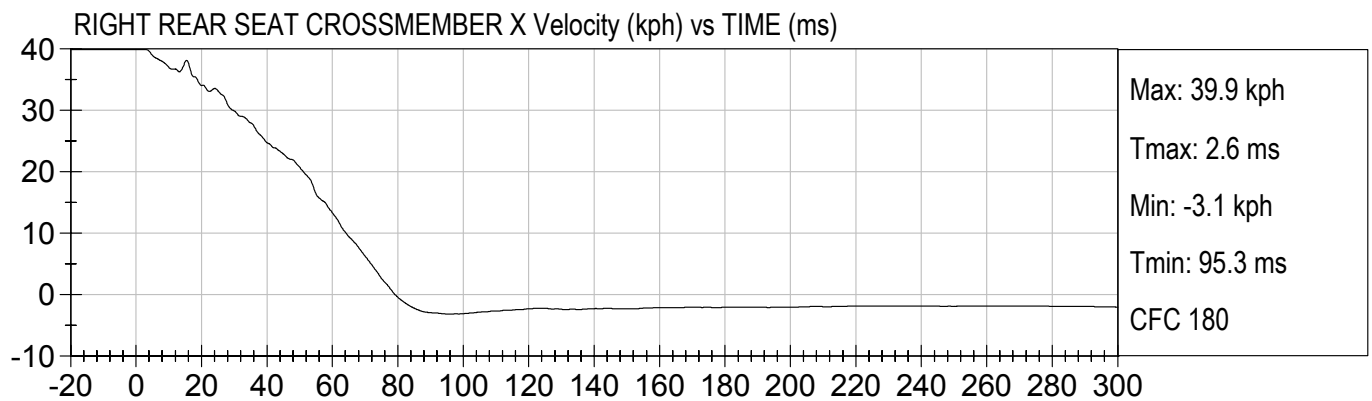
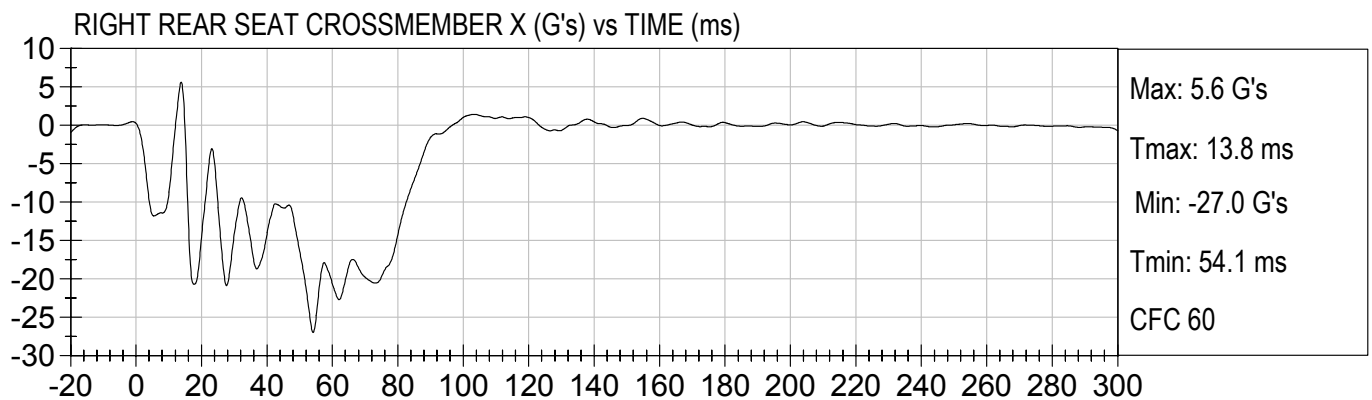
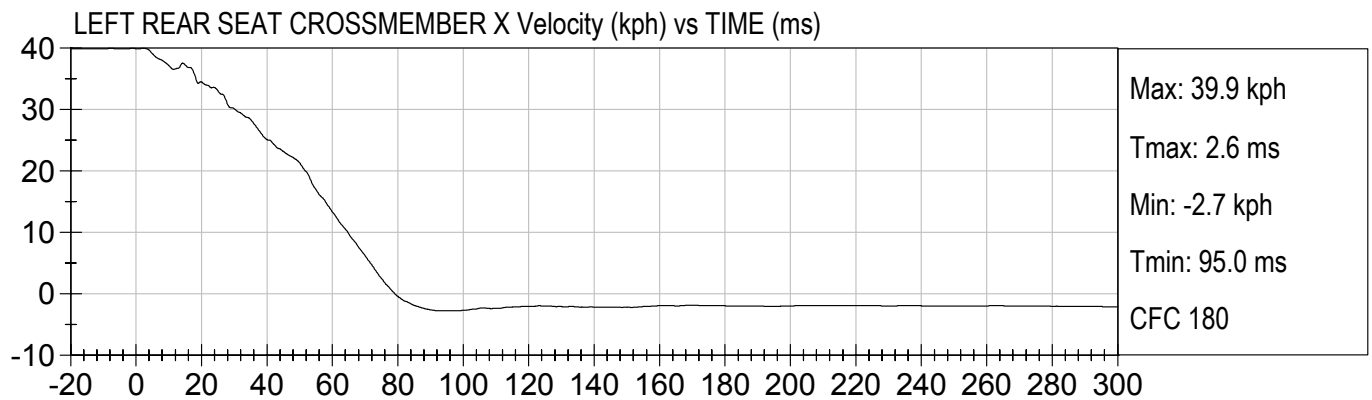
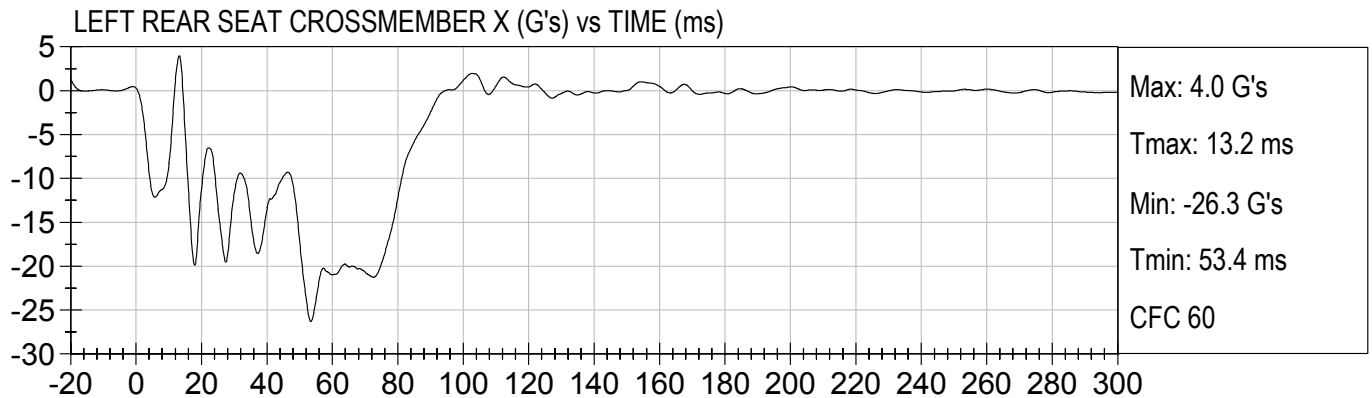
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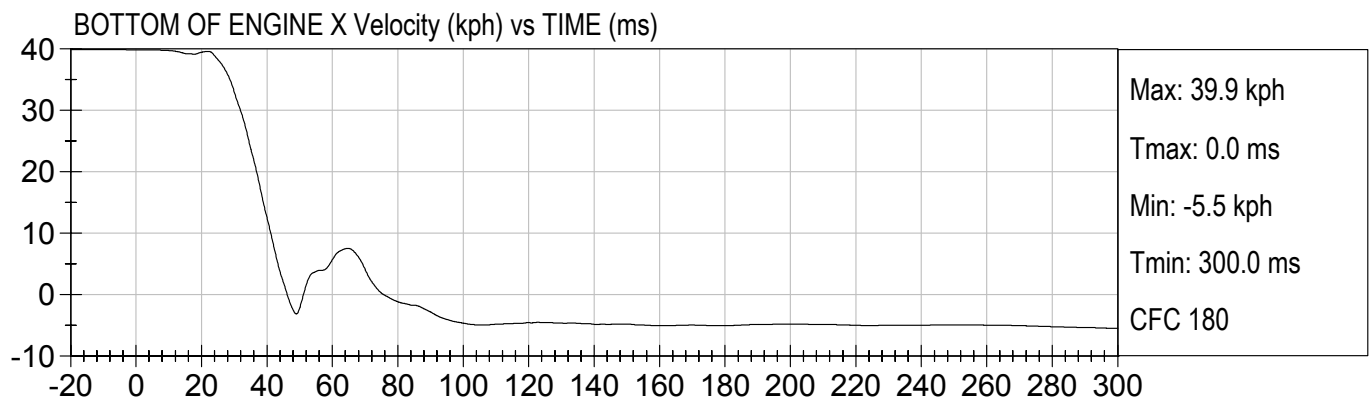
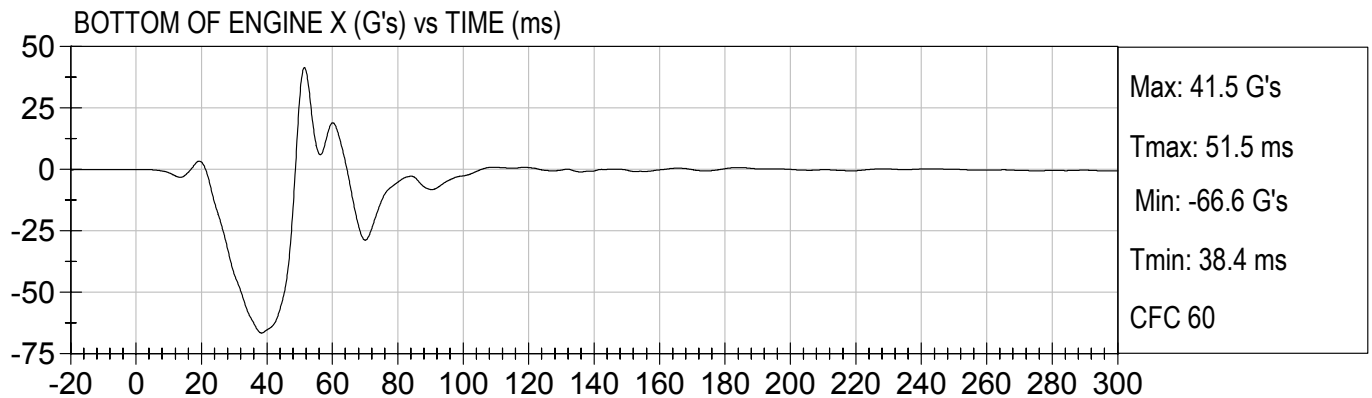
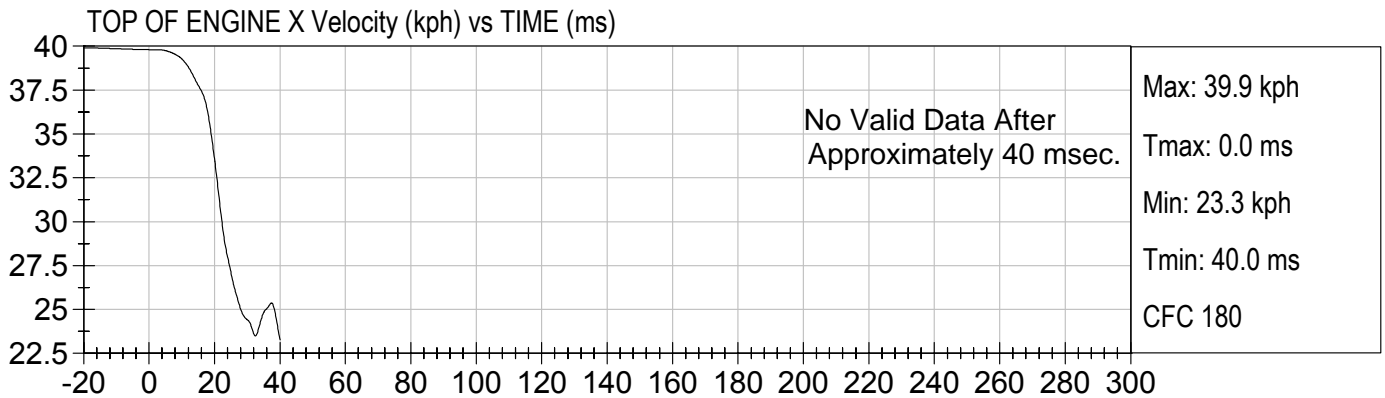
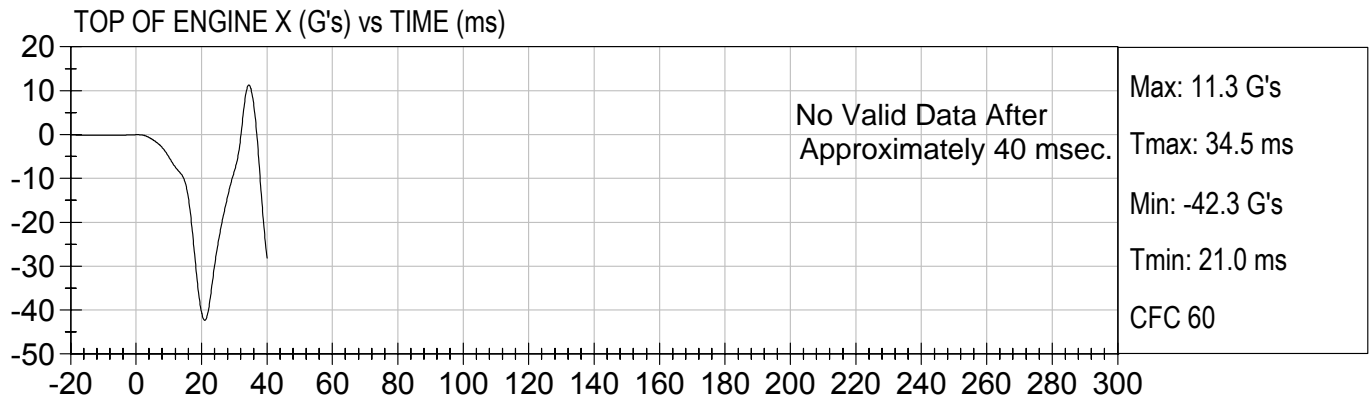




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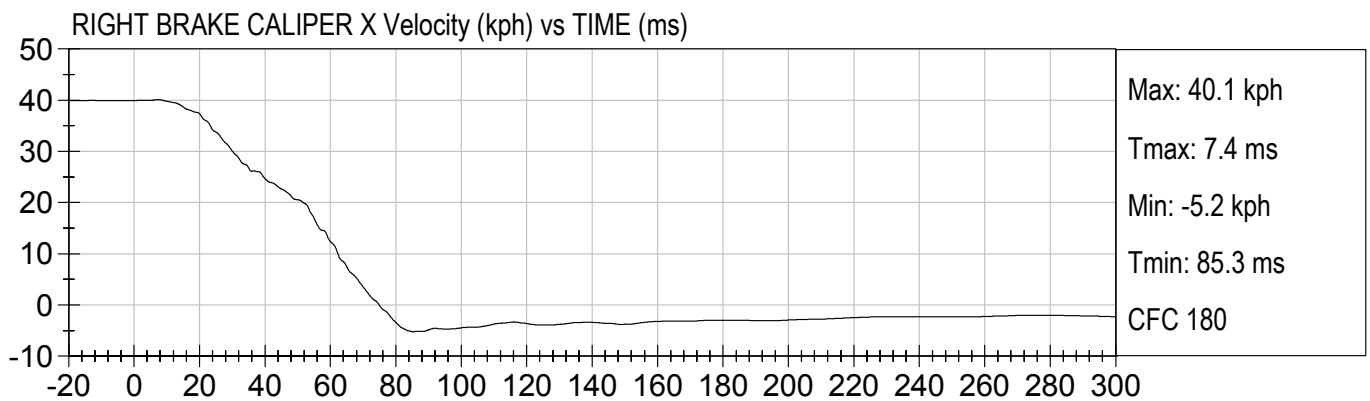
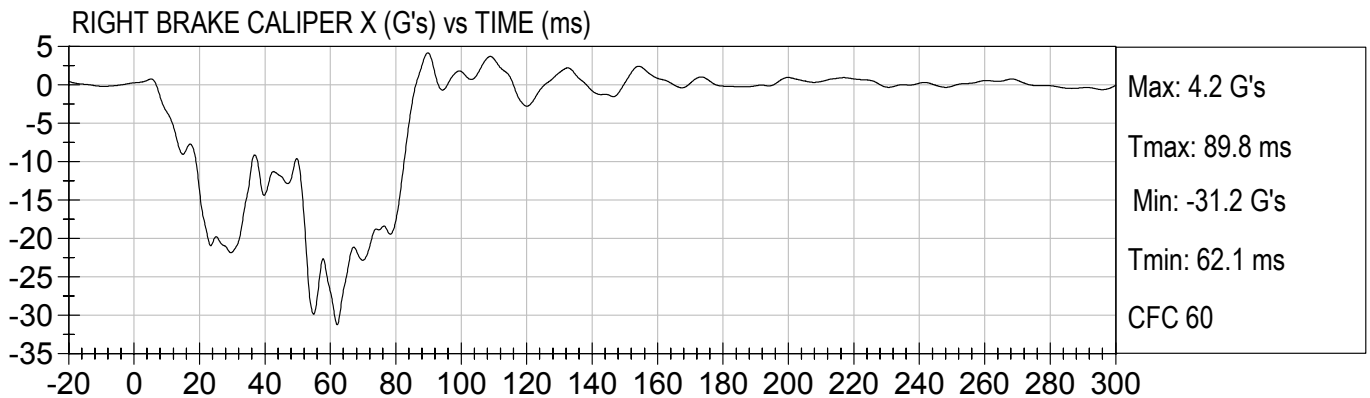
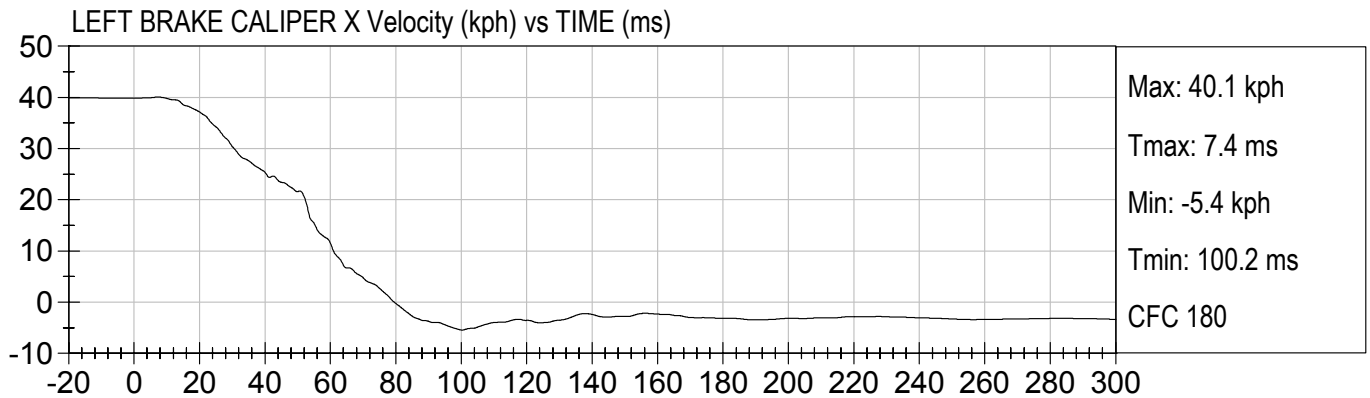
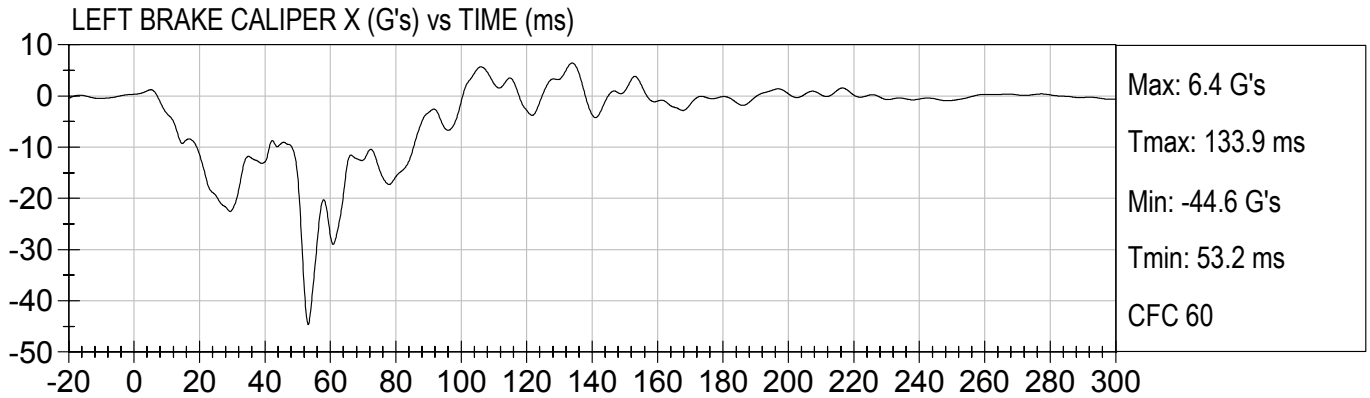






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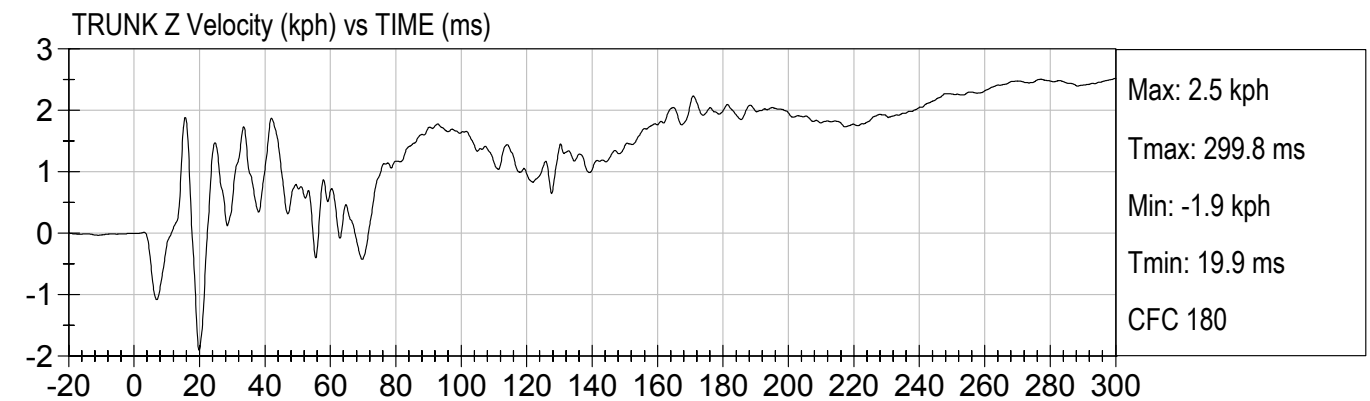
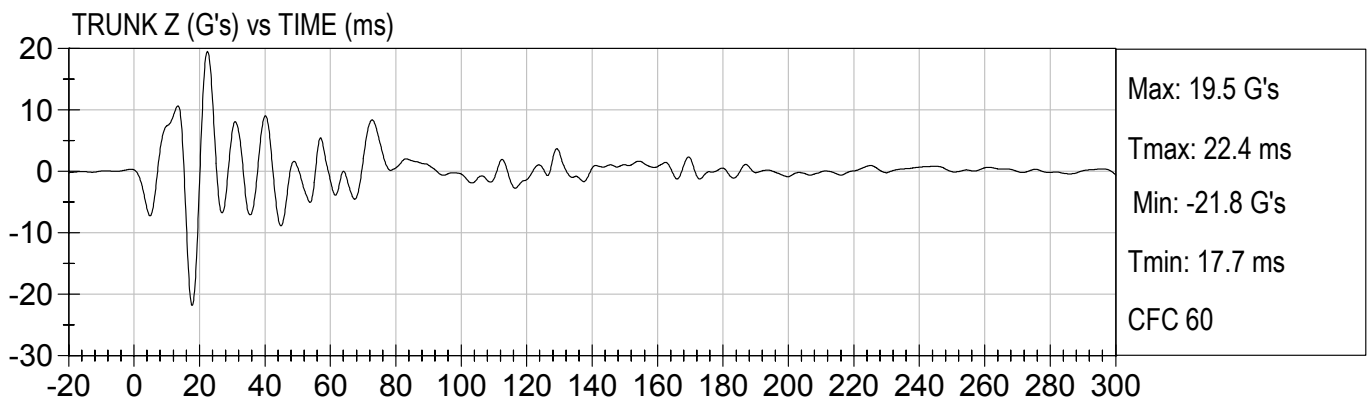
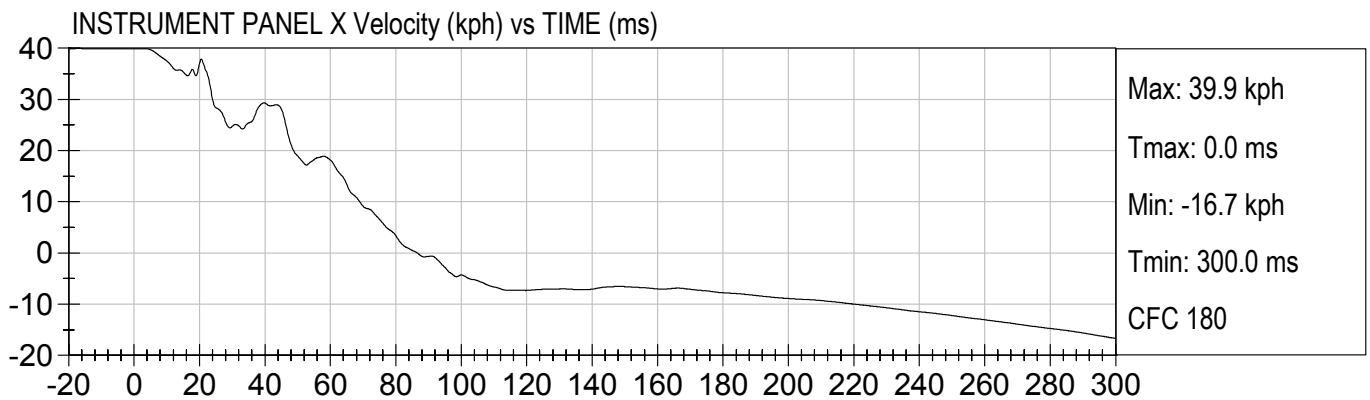
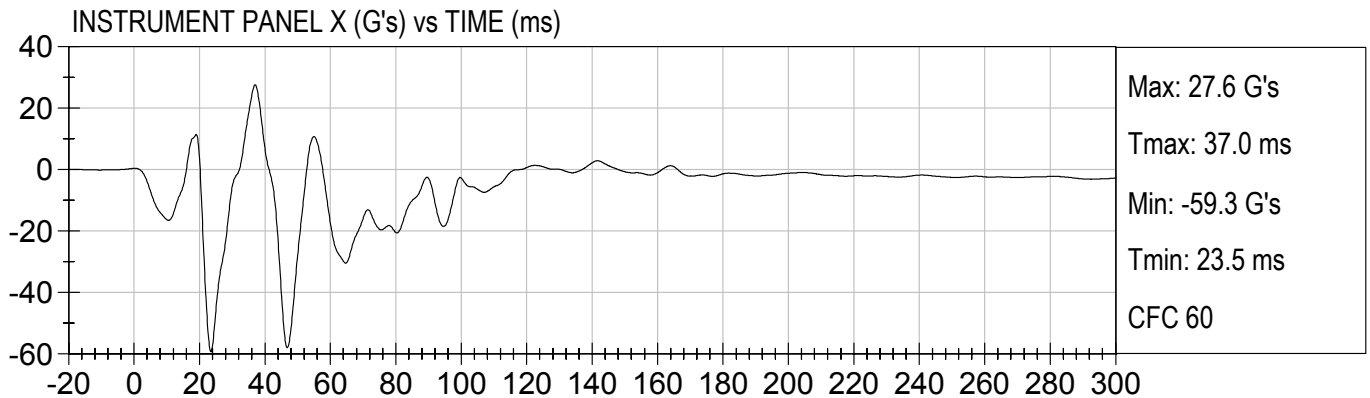
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2006 TOYOTA COROLLA (C65102)

Test Date: 10/20/05
Speed: 24.8 mph (39.9 km/h)



APPENDIX B
CRASH TEST PHOTOGRAPHS

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MFD. BY: TOYOTA MOTOR CORPORATION 08/05
GVWR 3585LB GAWR FR 1885LB RR 1720LB
THIS VEHICLE CONFORMS TO ALL APPLICABLE
FEDERAL MOTOR VEHICLE SAFETY, BUMPER, AND
THEFT PREVENTION STANDARDS IN EFFECT ON
THE DATE OF MANUFACTURE SHOWN ABOVE. CAR
JTDBR32E560058140



C/TR: 1E7/FA11 ZZE130L-AEPDKA
A/TM: -01A/A245E MADE IN JAPAN

271 A

Vehicle Certification Label



TIRE AND LOADING INFORMATION

SEATING CAPACITY: TOTAL 5
FRONT 2: REAR 3
The combined weight of occupants
and cargo should never exceed 385 kg or 850 lbs.

ORIGINAL TIRE SIZE	COLD TIRE INFLATION PRESSURE
P185/65R15	FRONT 210kPa, 30PSI
	REAR 210kPa, 30PSI
COMPACT SPARE TIRE	COLD TIRE INFLATION PRESSURE
T125/70R16	420kPa, 60PSI

**SEE OWNER'S MANUAL FOR
ADDITIONAL INFORMATION**

12A01

INFORMATION SUR LES PNEUS ET LE CHARGEMENT

NOMBRE DE PLACES ASSISES : TOTAL 5
AVANT 2: ARRIÈRE 3
Le poids total des occupants et du chargement ne
doit jamais être supérieur à 385 kg ou 850 lb.

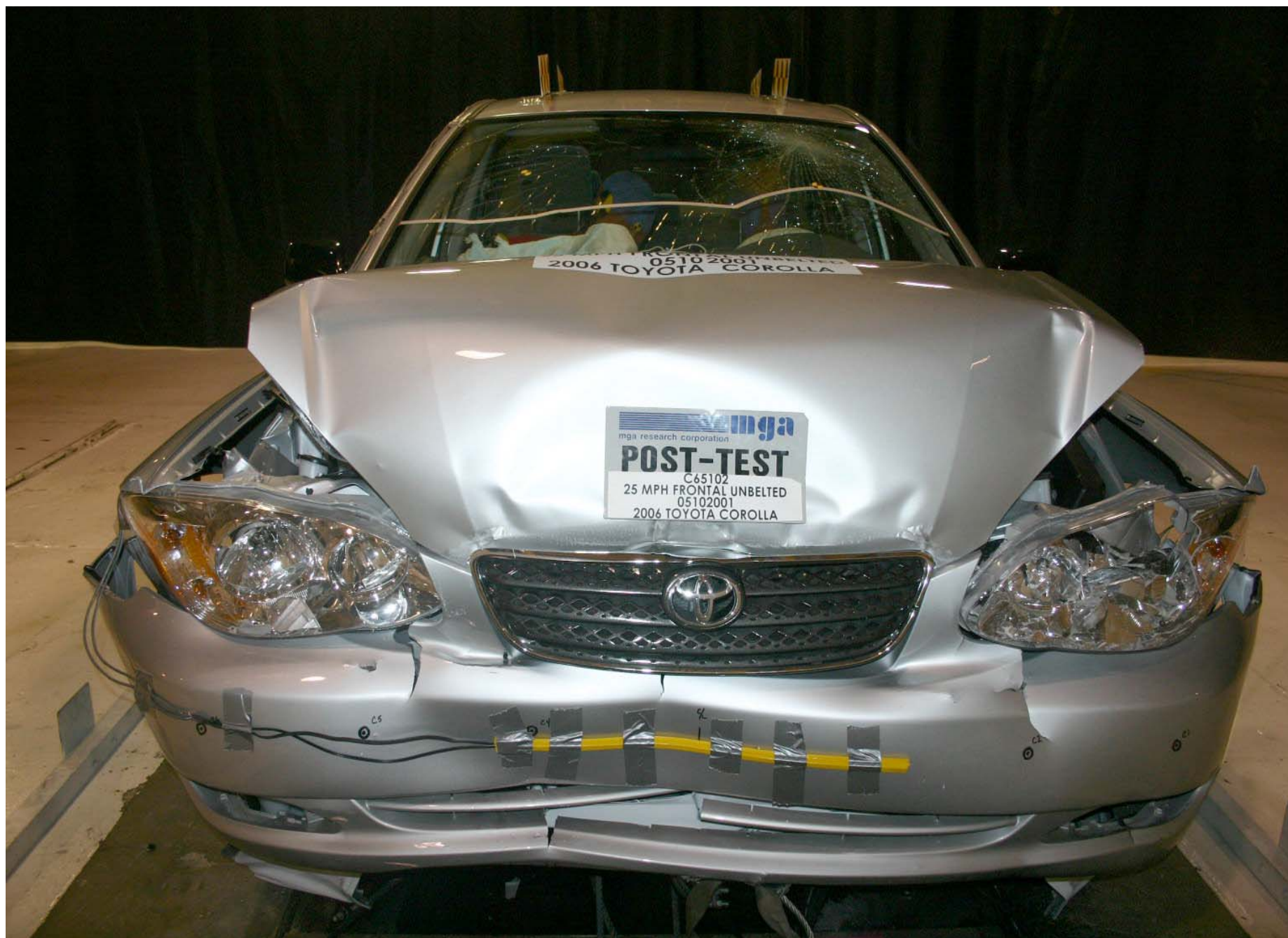
DIMENSION DES PNEUS D'ORIGINE	PRESSION DE GONFLAGE À FROID
P185/65R15	AVANT 210kPa, 30PSI
	ARRIÈRE 210kPa, 30PSI
ROUE DE SECOURS COMPACTE	PRESSION DE GONFLAGE À FROID
T125/70R16	420kPa, 60PSI

**POUR DE PLUS AMPLES INFORMATIONS,
VOIR LE MANUEL DU PROPRIÉTAIRE**

Q 9



Pre-Test Front View of Test Vehicle



Post-Test Front View of Test Vehicle



Pre-Test Left Side View of Test Vehicle



Post-Test Left Side View of Test Vehicle



Pre-Test Right Side View of Test Vehicle



Post-Test Right Side View of Test Vehicle



Pre-Test Right Front Three-Quarter View of Test Vehicle



Post-Test Right Front Three-Quarter View of Test Vehicle



Pre-Test Left Front Three-Quarter View of Test Vehicle



Post-Test Left Front Three-Quarter View of Test Vehicle



Pre-Test Right Rear Three-Quarter View of Test Vehicle



Post-Test Right Rear Three-Quarter View of Test Vehicle



Pre-Test Left Rear Three-Quarter View of Test Vehicle



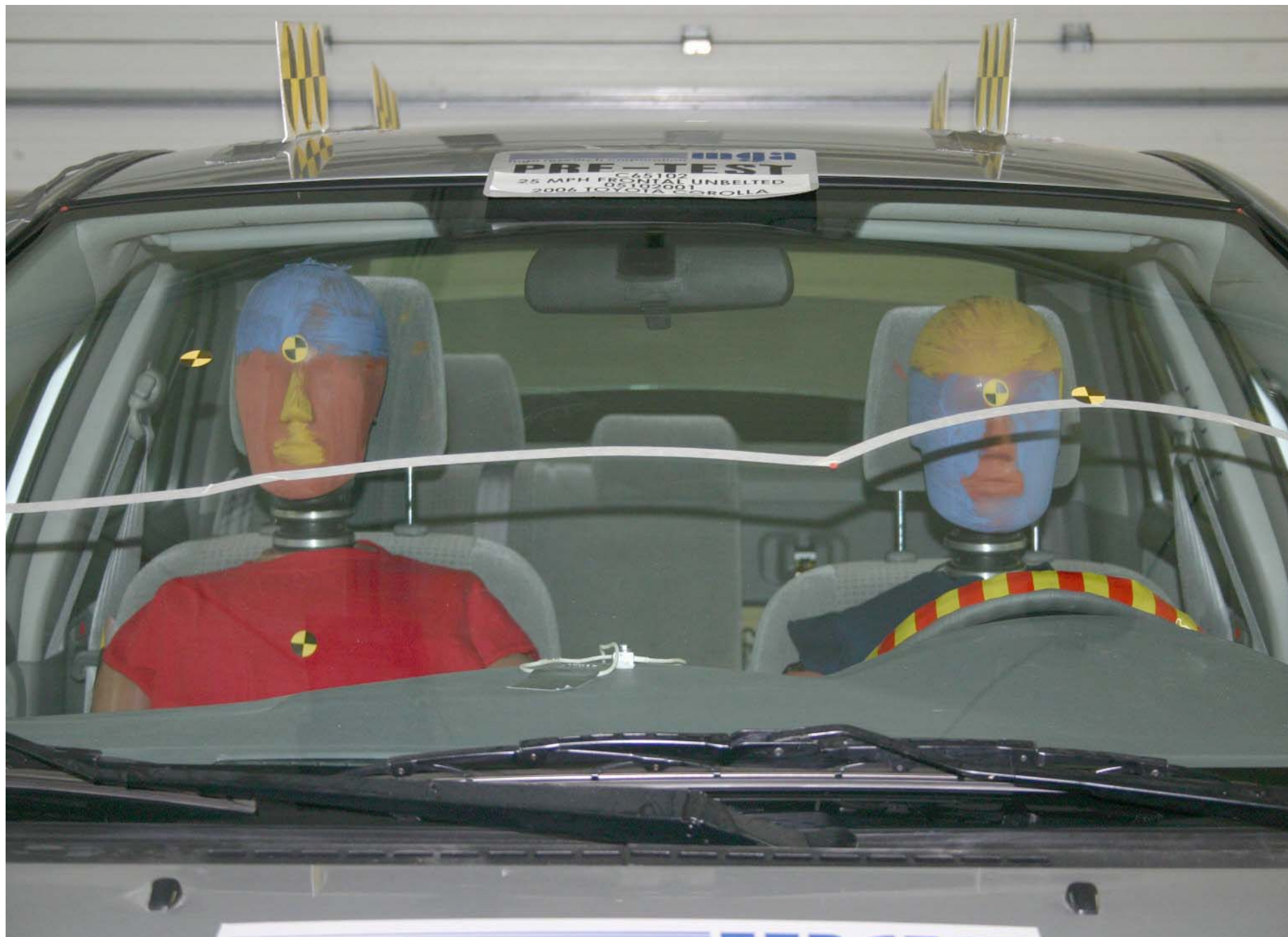
Post-Test Left Rear Three-Quarter View of Test Vehicle



Pre-Test Rear View of Test Vehicle



Post-Test Rear View of Test Vehicle



Pre-Test Windshield View



Post-Test Windshield View



Pre-Test Engine Compartment View



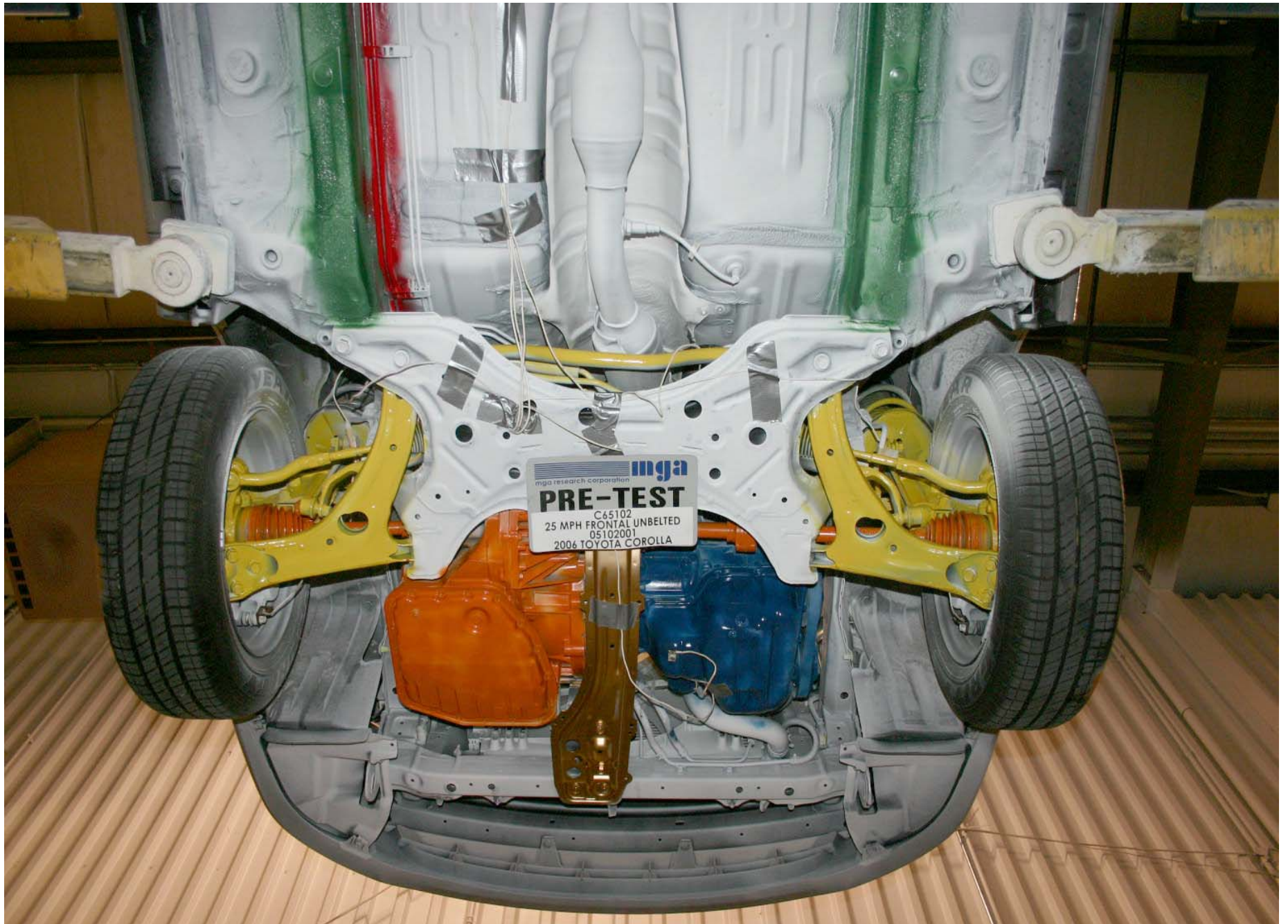
Post-Test Engine Compartment View



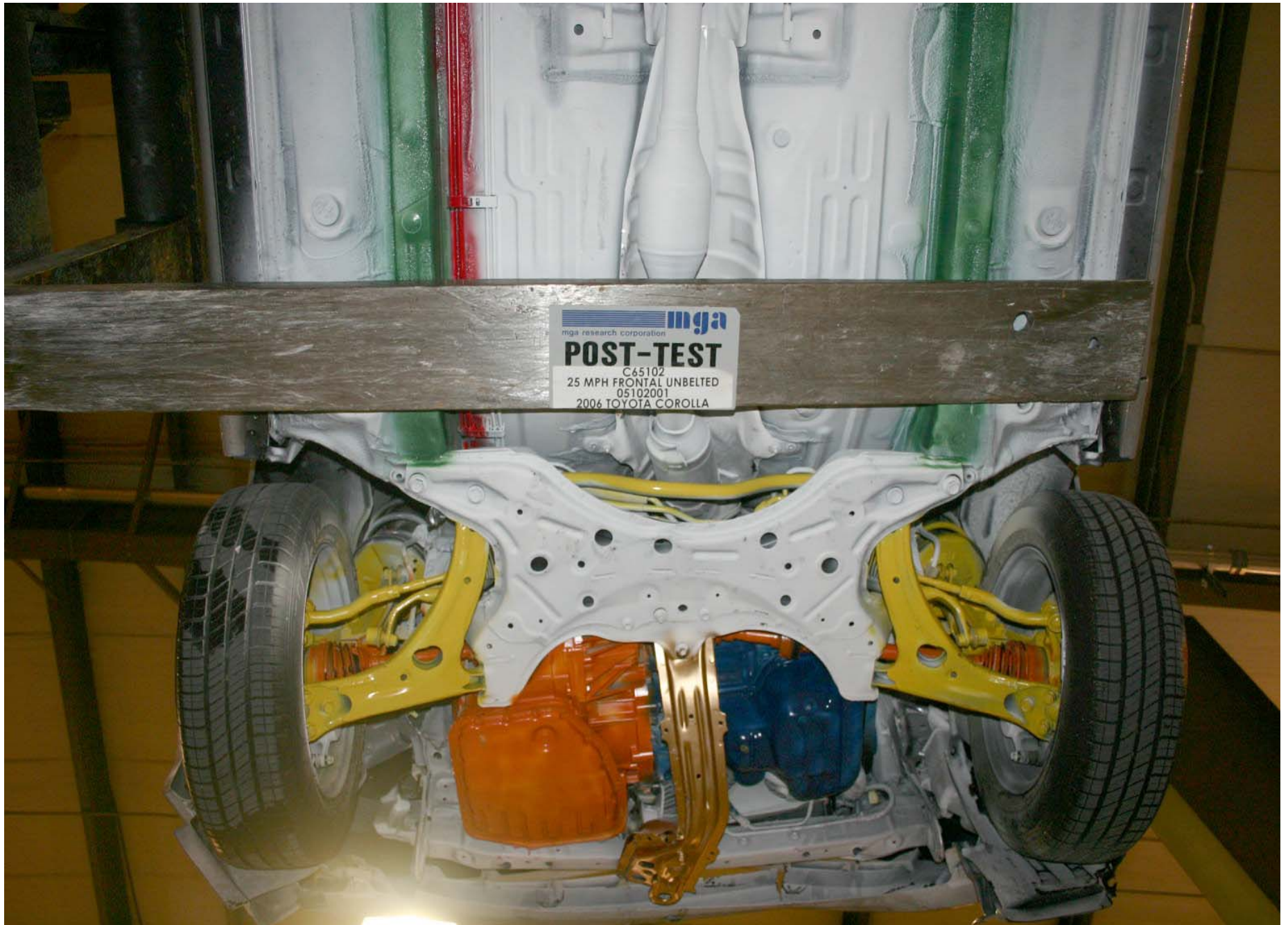
Pre-Test Fuel Filler Cap View



Post-Test Fuel Filler Cap View



Pre-Test Front Underbody View



Post-Test Front Underbody View



Pre-Test Mid Underbody View



Post-Test Mid Underbody View



Pre-Test Rear Underbody View



Post-Test Rear Underbody View



Pre-Test Driver Dummy Front View (head position)



Post-Test Driver Dummy Front View (head position)



Pre-Test Driver Dummy Position Left Side View



Post-Test Driver Dummy Position Left Side View



Pre-Test Driver Dummy Position Left Side View (Door Open)



Post-Test Driver Dummy Position Left Side View (Door Open)



Pre-Test Driver Dummy Seat Position



Post-Test Driver Dummy Seat Position



Pre-Test Driver Dummy Feet Position

Post-Test Driver Dummy Feet Position



Pre-Test Driver Side Knee Bolster View



Post-Test Driver Side Knee Bolster View



Post-Test Driver Dummy Head Contact (headrest)



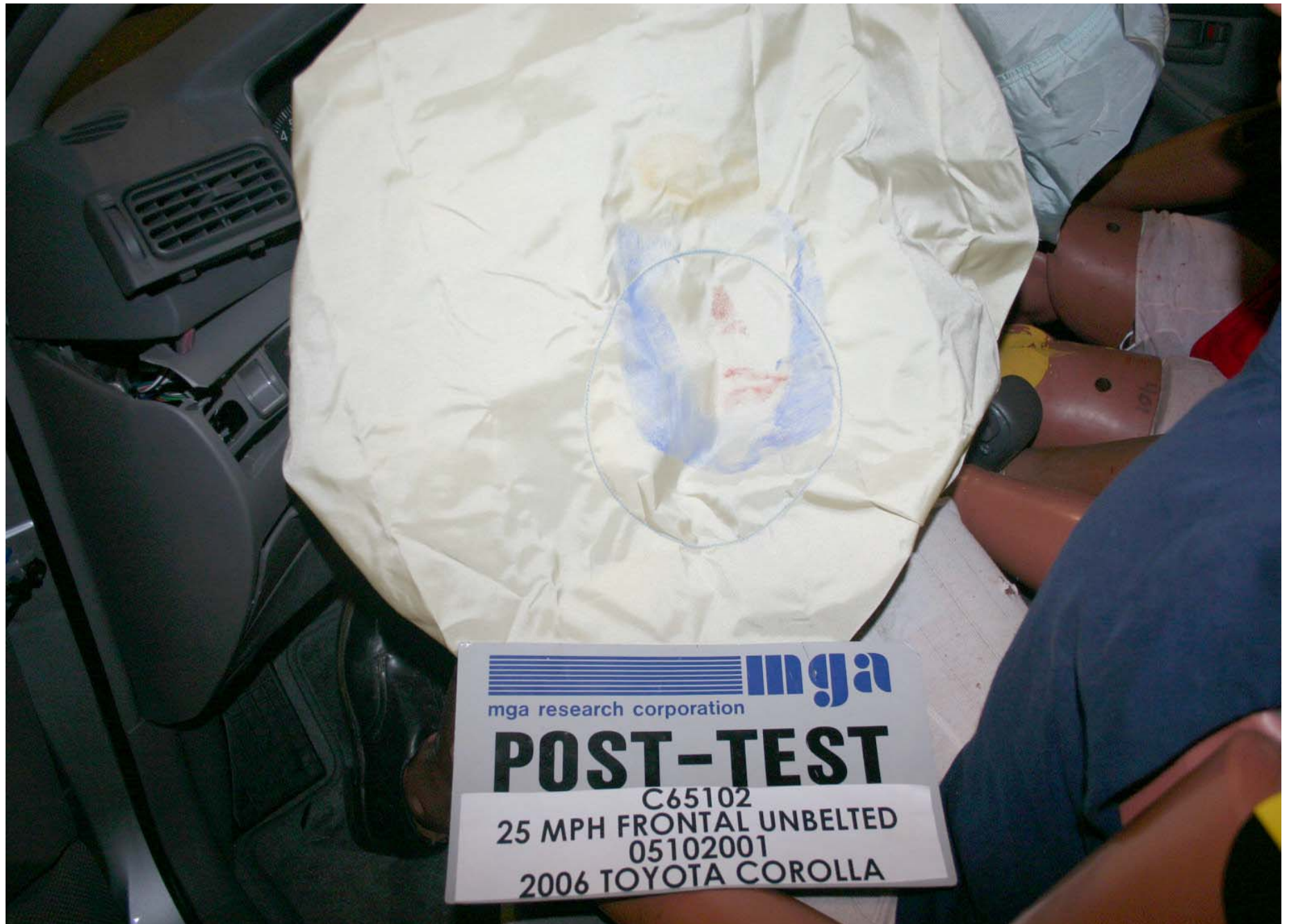
Post-Test Driver Dummy Head Contact (windshield)



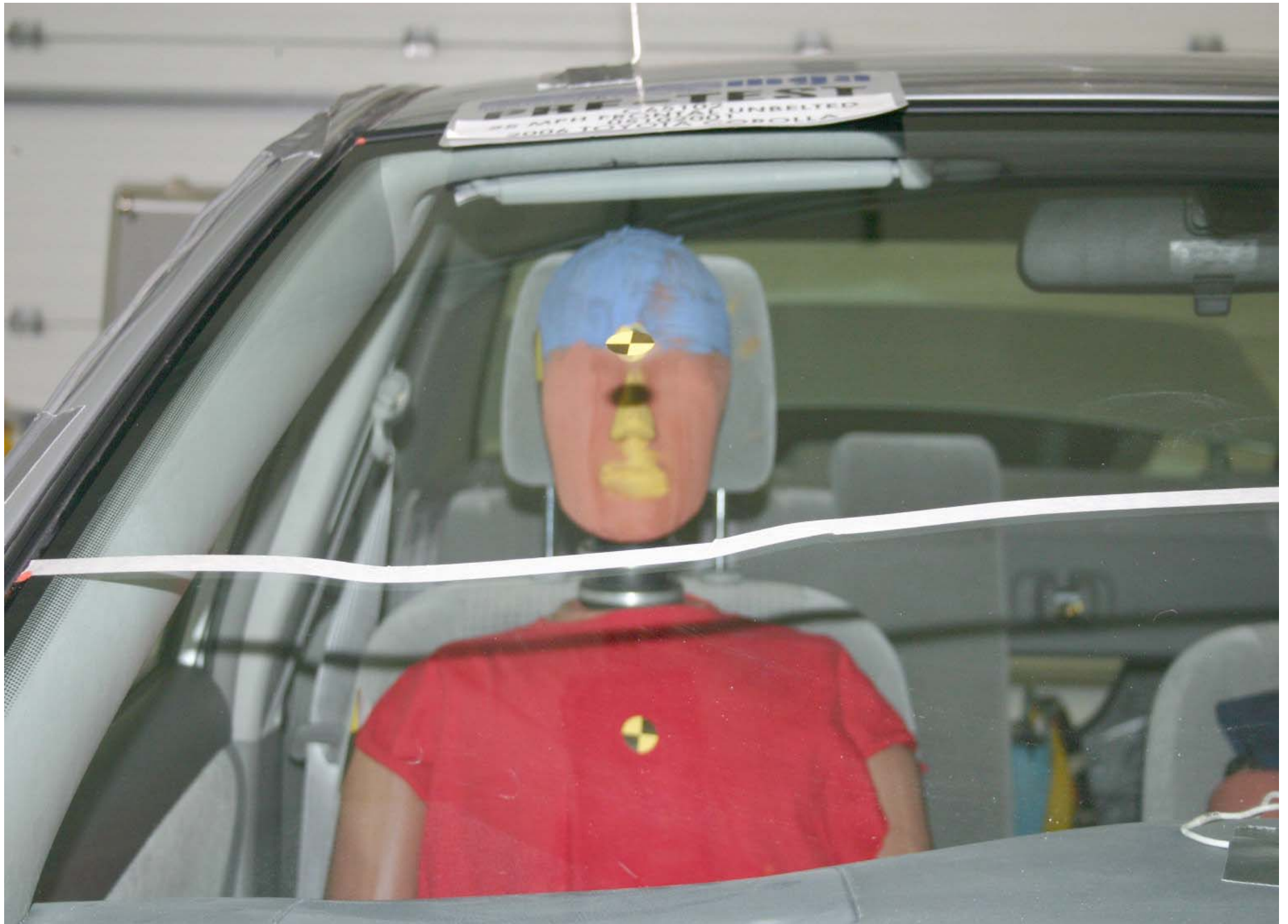
Post-Test Driver Dummy Head Contact (visor)



Post-Test Driver Dummy Knee Contact



Post-Test Driver Dummy Airbag Contact



Pre-Test Passenger Dummy Front View (head position)



Post-Test Passenger Dummy Front View (head position)



Pre-Test Passenger Dummy Position Right Side View



Post-Test Passenger Dummy Position Right Side View



Pre-Test Passenger Dummy Position Right Side View (Door Open)



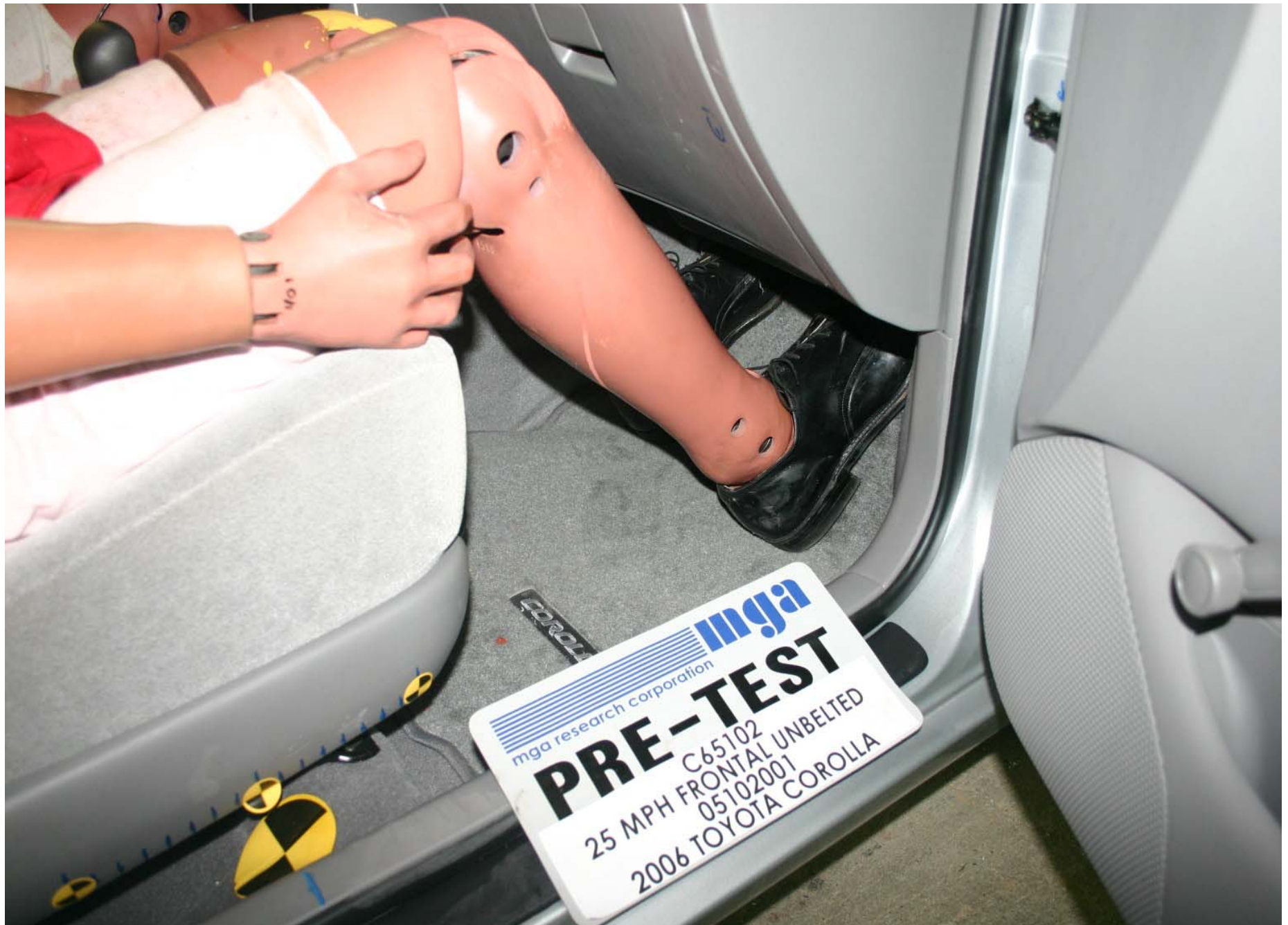
Post-Test Passenger Dummy Position Right Side View (Door Open)



Pre-Test Passenger Dummy Seat Position



Post-Test Passenger Dummy Seat Position



Pre-Test Passenger Dummy Feet Position



Post-Test Passenger Dummy Feet Position



Pre-Test Passenger Side Knee Bolster View



Post-Test Passenger Side Knee Bolster View 1



Post-Test Passenger Dummy Head Contact View (visor)



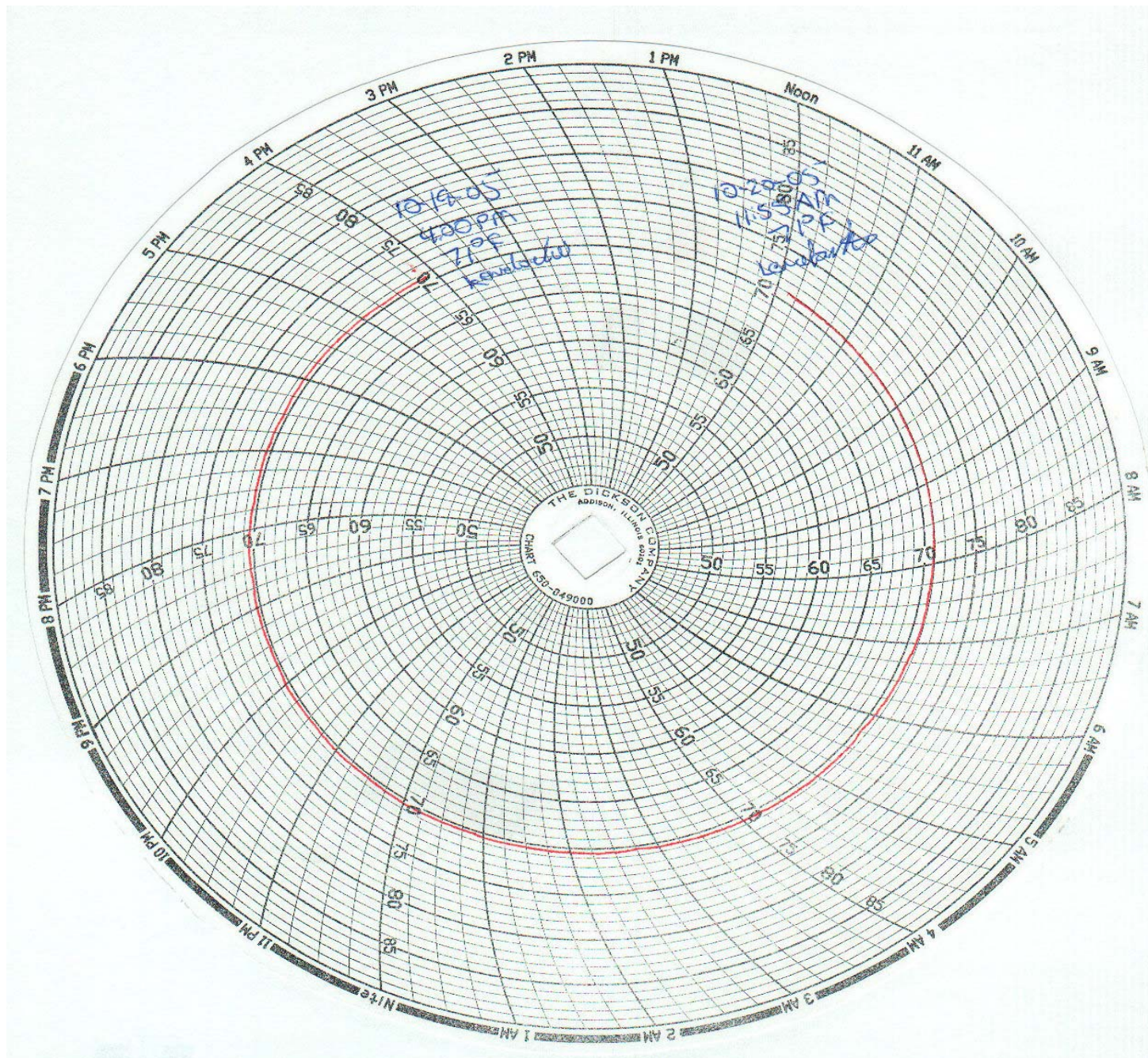
Post-Test Passenger Dummy Knee Contact



Post-Test Passenger Dummy Airbag Contact



Vehicle Impact



Temperature Plot

APPENDIX C
INSTRUMENTATION CALIBRATION

INSTRUMENTS FOR DRIVER DUMMY NO. 403

	SERIAL NO.	MANUFACTURER	CALIBRATION DATE
Head X	C10686	Endevco	08/31/05
Head Y	AGH74	Endevco	08/31/05
Head Z	C13046	Endevco	10/18/05
Neck Load Cell	1561	Denton	08/19/05
Chest X	C13081	Endevco	10/14/05
Chest Y	C12883	Endevco	10/14/05
Chest Z	C12881	Endevco	10/14/05
Chest Displacement	403	Servo	06/23/05
Left Femur Load Cell	946	GSE	07/28/05
Right Femur Load Cell	945	GSE	07/28/05

INSTRUMENTS FOR PASSENGER DUMMY NO. 401

	SERIAL NO.	MANUFACTURER	CALIBRATION DATE
Head X	AGH79	Endevco	08/31/05
Head Y	AGH89	Endevco	08/31/05
Head Z	AGH55	Endevco	08/31/05
Neck Load Cell	606	Denton	05/17/05
Chest X	AGH90	Endevco	10/14/05
Chest Y	AH467	Endevco	10/14/05
Chest Z	AH5P1	Endevco	10/14/05
Chest Displacement	401	Servo	10/17/05
Left Femur Load Cell	1362	Denton	10/17/05
Right Femur Load Cell	1361	Denton	10/17/05

VEHICLE INSTRUMENTS

	SERIAL NO.	MANUFACTURER	CALIBRATION DATE
Left Rear Seat Crossmember X	J07-M09	Entran	04/28/05
Right Rear Seat Crossmember X	E05-Z59	Entran	07/20/05
Top of Engine X	K03-J13	Entran	08/16/05
Bottom of Engine X	B21-Z02	Entran	09/07/05
Left Brake Caliper X	C29-L08	Entran	04/28/05
Right Brake Caliper X	E05-Z50	Entran	07/19/05
Instrument Panel X	E05-Z25	Entran	06/28/05
Trunk Z	E05-Z18	Entran	06/28/05

APPENDIX D

H POINT ATD POSITIONING CCM DATA

DRIVER CCM DATA

TOYOTA COROLLA C65102

10-20-05 TEST DATE

Driver Hpt Oscar Data 10-19-05
Index Xmm Ymm Zmm
HPT
0001 +00204.348 +00207.523 +00230.214
SILL
0003 +00217.395 +00054.556 +00416.426
HINGE
0004 +00905.572 +00018.939 +00095.670
STRIKER
0008 -00000.257 -00000.389 -00000.867
DASH
Dash data was not collected
HEADER
0002 +00167.537 +00226.228 -00536.148

Driver Dummy Data 10-20-05
Index Xmm Ymm Zmm
HPT
0002 +00199.160 +00114.332 +00237.640
HEADER
0003 +00167.971 +00215.805 -00536.105
STRIKER
0001 -00000.586 +00000.549 +00000.000

From APPENDIX F DUMMY POSITIONING PROCEDURES FOR DRIVER TEST DUMMY CONFORMING TO SUBPART E OF PART 572

- X 12. Position the H-point of the dummy within 0.5 inch of the vertical dimension and 0.5 inch of the horizontal dimension of a point 0.25 inch below the H-point determined by using the equipment and procedures specified in SAE J826 (APR 1980). (S10.4.2.1) Then measure the pelvic angle with respect to the horizontal using the pelvic angle gage.

Adjust the dummy position until these three measurements are within the specifications. (S10.4.2.1 and S10.4.2.2)

.204 horizontal inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)

5.188 mm = .204 inches AFT

.292 vertical inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)

1.076 mm = .042 inches BELOW

24.6° pelvic angle (20° to 25°)

PASSENGER CCM DATA

TOYOTA COROLLA C65102 10-20-05 TEST DATE

Passenger Hpt Oscar Data 10-19-05

Index	Xmm	Ymm	Zmm
HPT			
0001	+00211.954	-00202.546	+00217.062
SILL			
0002	+00214.594	-00049.902	+00415.522
HINGE			
0005	+00902.278	-00022.441	+00081.003
STRIKER			
0006	-00001.723	+00000.052	+00000.704
DASH			
0004	+00725.529	-00159.388	+00099.362
HEADER			
0003	+00174.064	-00228.264	-00534.444

Passenger Dummy Data 10-20-05

Index	Xmm	Ymm	Zmm
HPT AFTER NECK ADJUSTMENT			
0002	+00214.739	-00116.787	+00225.180
HEADER			
0004	+00174.702	-00228.114	-00535.082
STRIKER			
0003	+00000.079	-00000.179	-00000.093

From APPENDIX F DUMMY POSITIONING PROCEDURES FOR PASSENGER TEST DUMMY CONFORMING TO SUBPART E OF PART 572

Previous to neck adjustment

X 11. Position the H-point of the dummy within 0.5 inch of the vertical dimension and 0.5 inch of the horizontal dimension of a point 0.25 inch below the H-point determined by using the equipment and procedures specified in SAE J826 (APR 1980). (S10.4.2.1) Then measure the pelvic angle with respect to the horizontal using the pelvic angle gage.

Adjust the dummy position until these three measurements are within the specifications. (S10.4.2.1 and S10.4.2.2)

.110 horizontal inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)

.160 vertical inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)

23.8° pelvic angle (20° to 25°)

PASSENGER CCM DATA (Continued....)

From APPENDIX F DUMMY POSITIONING PROCEDURES FOR PASSENGER TEST DUMMY CONFORMING TO SUBPART E OF PART 572

After neck adjustment of four notches

X 12.5 Adjust the neck bracket of the dummy the minimum amount necessary from the non-adjusted "0" setting until the head is level within $\pm 0.5^\circ$. (S10.1)

Record the following, then go to 13 (The neck bracket was moved four notches)

.110 horizontal inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)

2.785 mm = .110 inches FORWARD

.320 vertical inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)

1.768 mm = .070 inches BELOW

21.2° pelvic angle (20° to 25°) (S10.4.2.2)